

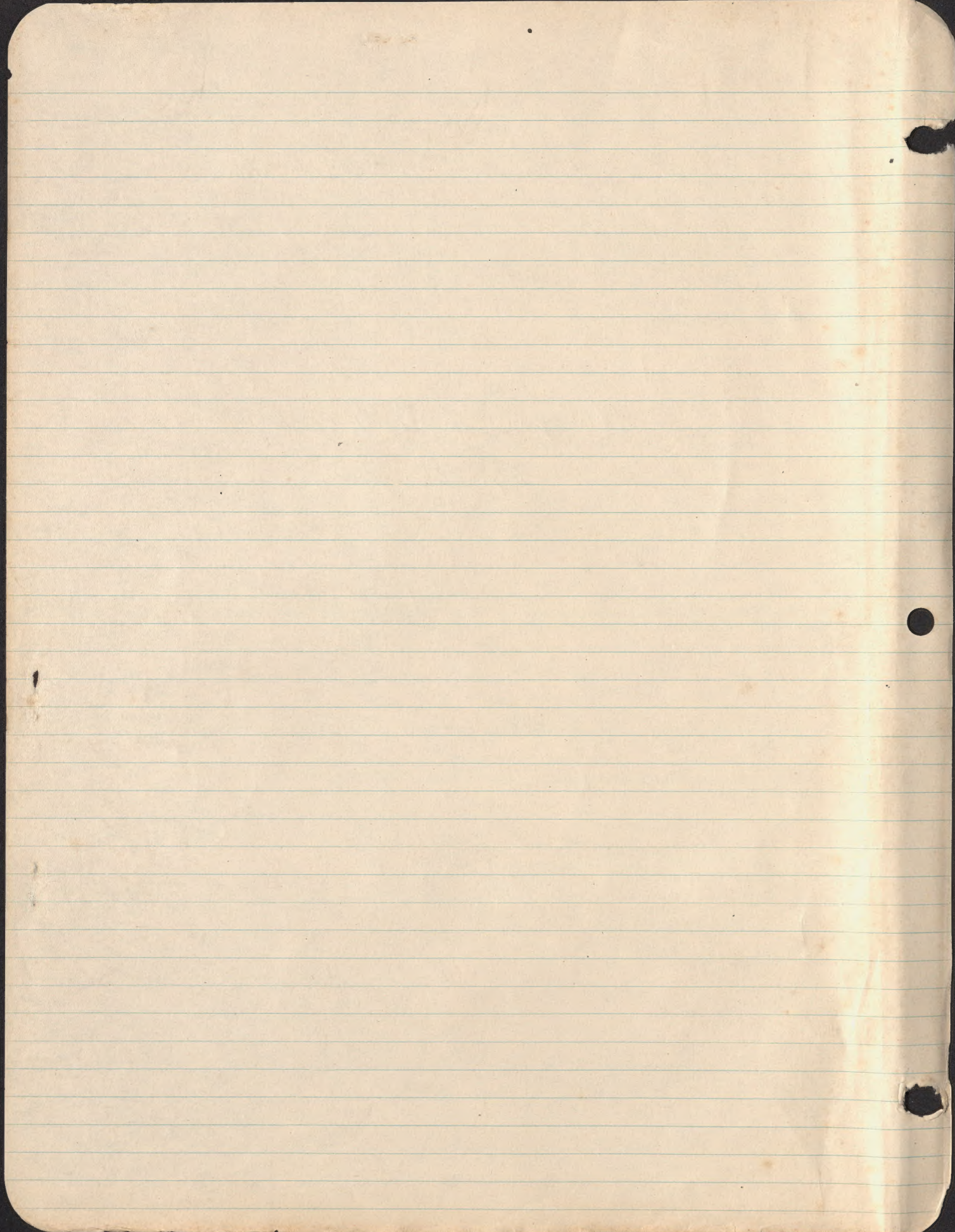
Archbold Files
CAPE YORK EXPED. 1948
Plant Collections
FOLDER VIIb

1948-1949
CAPE YORK EXPED.
PLANT COLLECTIONS
FOLDER VIIb

ASA L. SHIPMAN'S SONS
NEW YORK
128 S
REG. U. S. PATENT OFFICE
COMMON SENSE BINDER

1948 Archbold Cape York Expedition

Analysis of Plant Collections
by R. A. Pilg.



Lockerie

Rain forest - main body:

Primary forest

h. 1

Primary forest margins

4

Secondary forest

5

Rain forest - "Islands"

6

Rain forest - Tallery woods

7

Black Tea-tree Scrub

8

Savanna forest: General

9

Savanna forest of wet-leafed trees

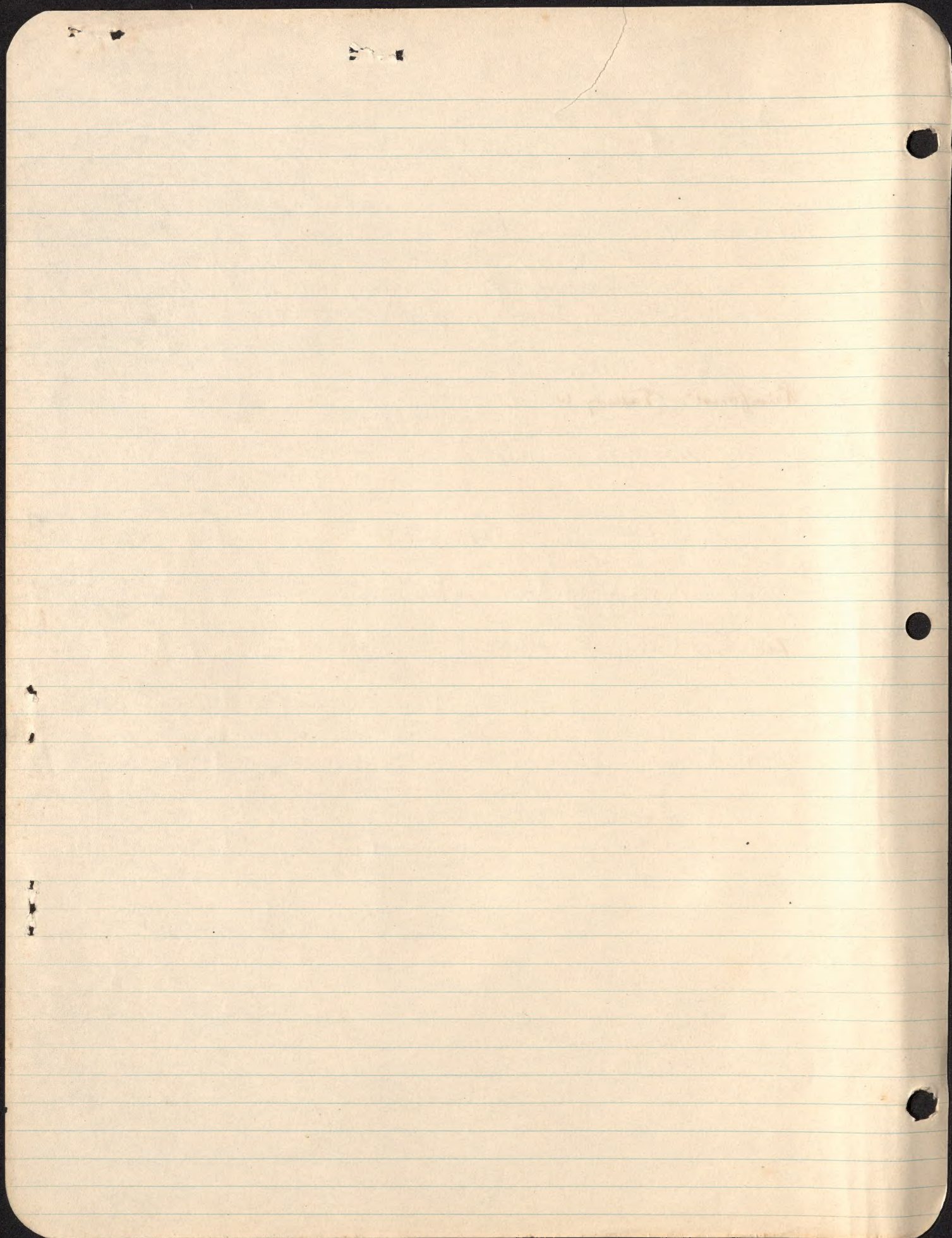
15

Tea-tree swamps

17

Water plants

18



Lockerbie

Rain forest - main body on central ridge of Peninsula.
Continuous from near Red Island Point to near tip of Peninsula. Penetrated by pockets of savanna forest, mostly in valleys.

Pr

Canopy

18402. 0

18551. 7

18816. 7

V

Futrie

18388.

89.

90

91. 7

18594. 0

18808. 7

09. 7

10. 14

11. 0

12.

Lodgerbie

Notes attached to back of page

1' for timber.

h. ? Eng
has heath.

81: up to 8.5m.

- 1A.

found:

0: ?

sci.

DAMURRA
Rajinac pink

to a creek

near Sawmill with tall Eulalia ? palms.

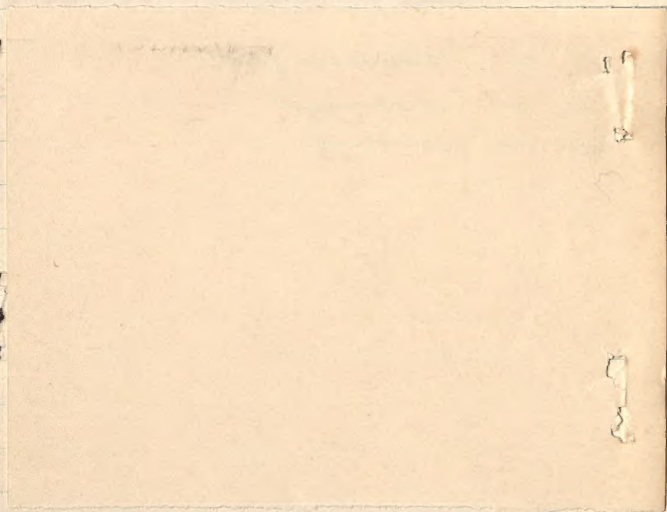
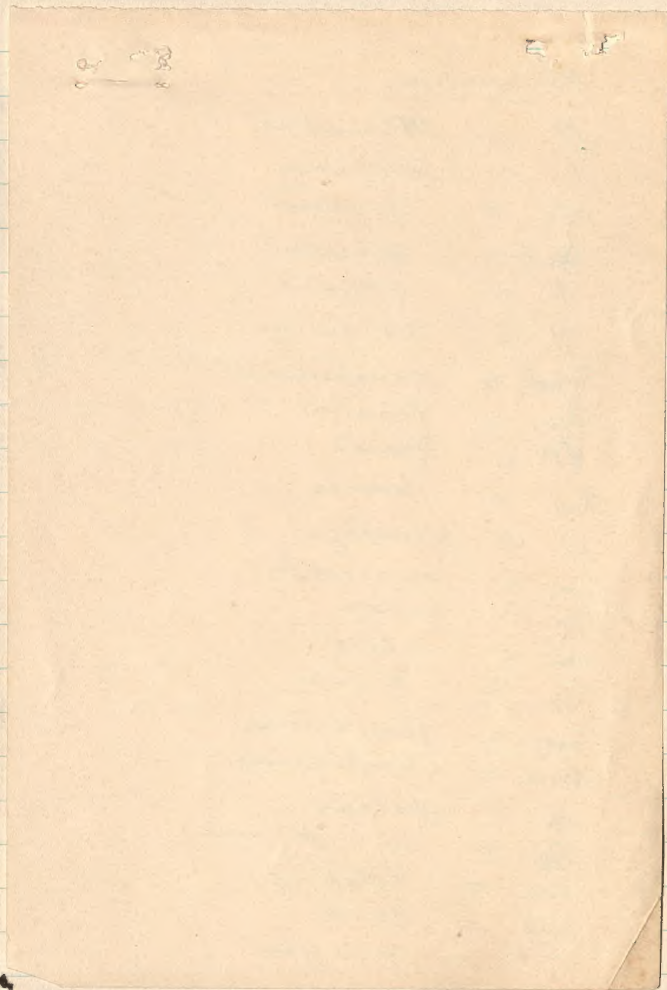
Eulalia? P. locally on banks of stream. ± 60 ft. (in groups).

7 spp. Palms seen near Sawmill (2 fan-leaf, 1 Palawan, 1 Bayonet, 3 pinnae)

Abbreviations

A. = Abundant
 C. = Common
 Sc. = Scattered
 S.S. = Sporadic
 F. = frequent
 O. = Occasional
 Consp. = conspicuous
 Fls. = flowers
 Fr. = fruit
 Lvs. = leaves
 P. = plentiful
 Uncom. = uncommon
 Br. = brown
 Wh. = white
 Gr. = green
 Prop. = propagious
 Char. = characteristic
 Sp. = species
 Sol. = solitary
 Blk. = black
 R.F. = rain forest

S.F. = Savanna forest
 D. = dominant
 Sol. = solitary



Hollinger Corp.
pH 8.5

Lockhartia

Rain forest - main body on central ridge of Peninsula.
Continuous from near Red Island Point to near
tip of Peninsula. Punctuated by pockets of
savanna forest, mostly in valleys.

Primary forest:

Canopy trees:

18402. *Alpharocarya*. C. up to 20 m. x 50 cm. Involucres of fl. only. Fruit for timber.
Sometimes out on S.F.

18551. *Tournefortia floribunda*. R.F. edges. Up to 20 m x 50 cm. Fl. young. Fls. ? Very
soft sticky bark. Resin a gum used for caulking spear heads.

18816. *Topol*: O. in edges (F. in adjoining S.F.) ± 20 m x 25-30 cm. Fl. up to 3.5 cm
dia. Bark thick, hard, corky, b. firm. WA-LA.

Boecia. *Sorbus Hickory*: R.F. edges & dry edge of forest.

Subcanopy trees:

18388. *Lam.* 15 m. x 20 cm. Fls. cream. Fl. young.

89. *Myrs.* *Substage*. 8 m x 10 cm. White fls. later pinkish. Fl. ?

90. F. in substage 6-8 m. Fls. wh. Fl. ?

91. *Lam.* *Substage*. 8 m. Fl. young. Lvs. faintly aromatic.

18594. *Rub.* 15 m. x 25 cm. Fl. buds only. Fl. red, fleshy.

18808. *Lyggium* F. in substage. 6-8 m. Fls. wh (in bud only).

09. *Caryota* S. up to 16 m. x 20 cm. Fl. red. Leaves \pm glaucous. DAMURRA

10. *Alnus*. *Substage* 10 m. Fragrant fls.; yellow reflexed petals. Stipules pink.

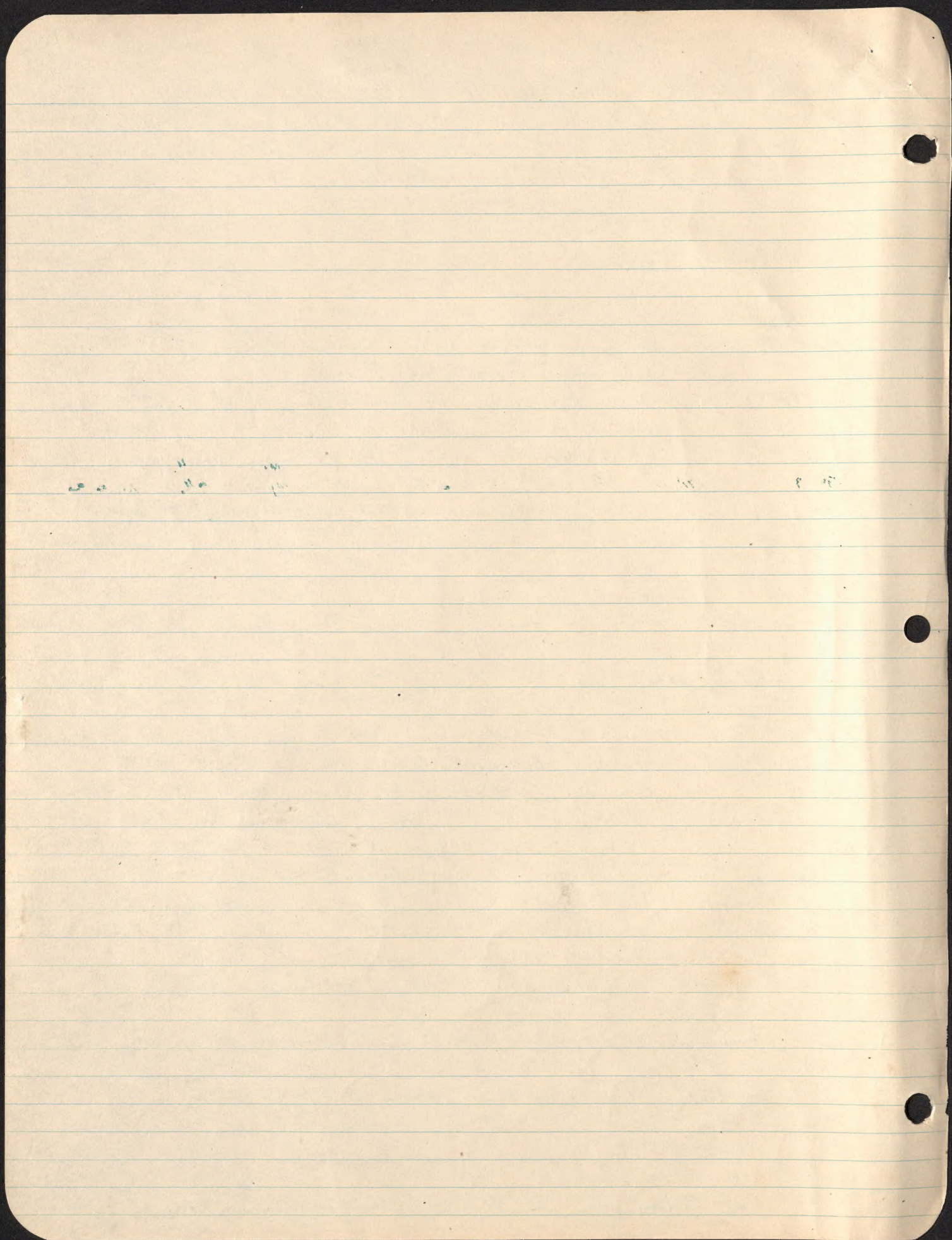
11. *Rub.* *Substage* 10 m. Fl. unisexual.

12. *Substage* 8 m. Fls. wh. Fl. unisexual.

Pandanus. ± 30 ft. slender, with long, branched prop roots. P. close to a creek
near Summit with tall *Eulalia*? palms.

Eulalia? P. locally on banks of stream. ± 60 ft. (in groups).

7 sp. *Palms* seen near Summit (2 fan-leaved, 1 *Tournefortia*, 1 *Caryota*, 3 *Pinus*).



Primary rain forest - main body

Climbers:

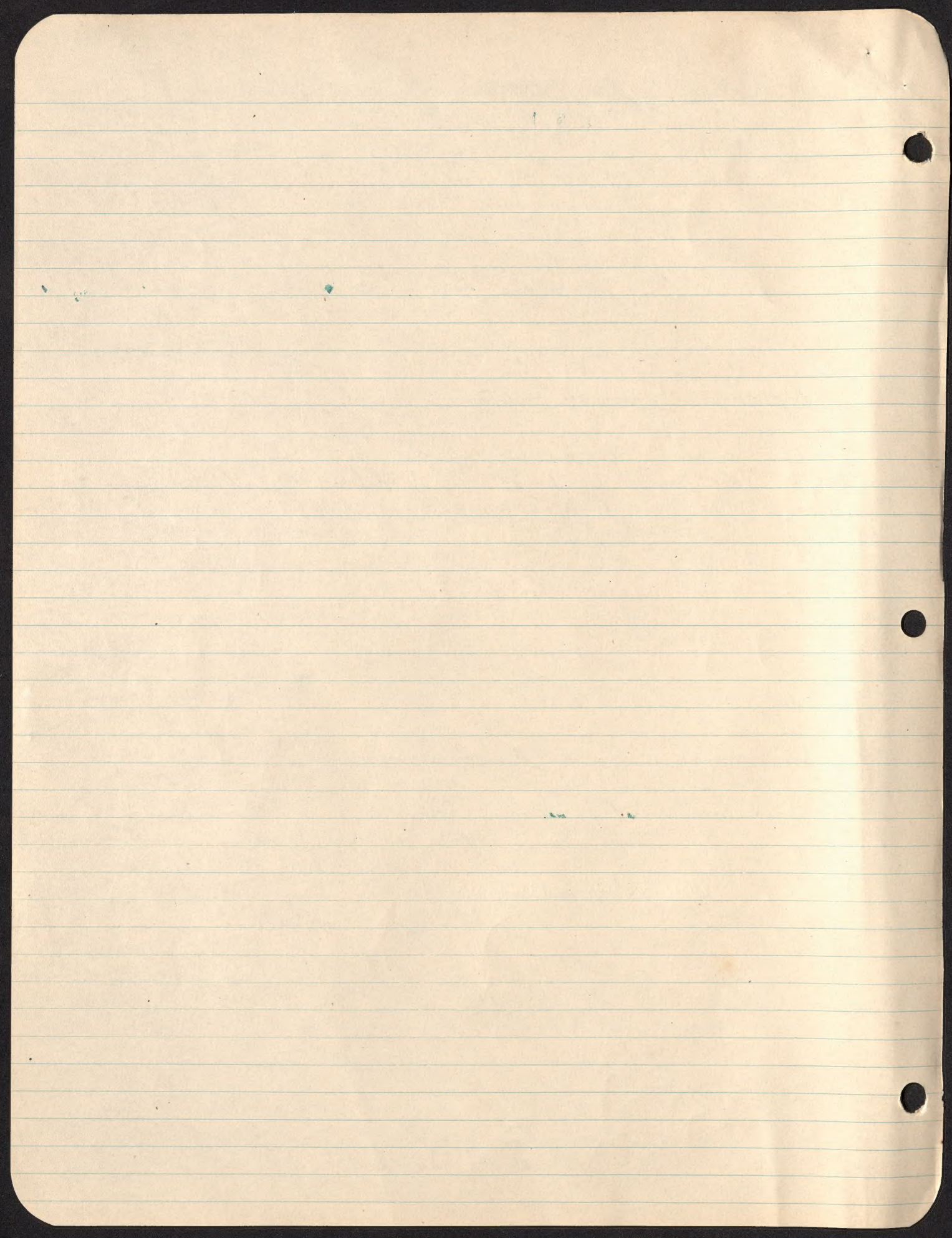
Calamus 17. seen near summit

Epiphytes & Parasites:

18384. *Toranthus*. F. ± 1 m. Fls. red.
 18628. *Toranthus*. On *Formicaria* sp. in forest edge. Small, compact fl.
 40. *Polypod*. F. on tree & rock. Creeping & nest-forming. 60-100 cm. Large shield leaves. Very comp. sp.
 18806. *Fungus*. On rotting wood.
 07. *Fungus*. On rotting logs.

Woody undergrowth:

18374. *Crinum*. S. ca. 1 m. monocious.
 94. *Bracaea*. O. 50-60 cm. Globes red fleshy fl.
 98. *Pigapple*. P. in dryish s.f. (also record growth) scrambling 2-10 m.
 Fls. whitish. Fl. blks. not eaten by natives. "Wai-a-white"
 18815. *Palm*. C. clump sp. 5-7 m. Fl. buds only. Leaves pinnate.
Psychoporus capitatus



Primary rain forest - main body

Herbaceous undergrowth

18385. *Lindsaea*. Fr. on rocks (talus). Up to 25 cm. Proliferous
 86. *Sten?* 1 plant " "
 92. *Man.* 1 sample.
 18634. *Fern.* Eros. on shady moist bank of a stream. 10-15 cm.
 35. *Opuntia*. Muddy edges of a stream. 50-60 cm. Stem aculeate 3-angled.
 46. *Moss*. Growing stones (O.).
 18817. *Tranthesium* C. floor plant. 25-35 cm. Fr. wh. or pinkish

Fungi

18383. On rotten wood.

11/18

11

11

11

11/18

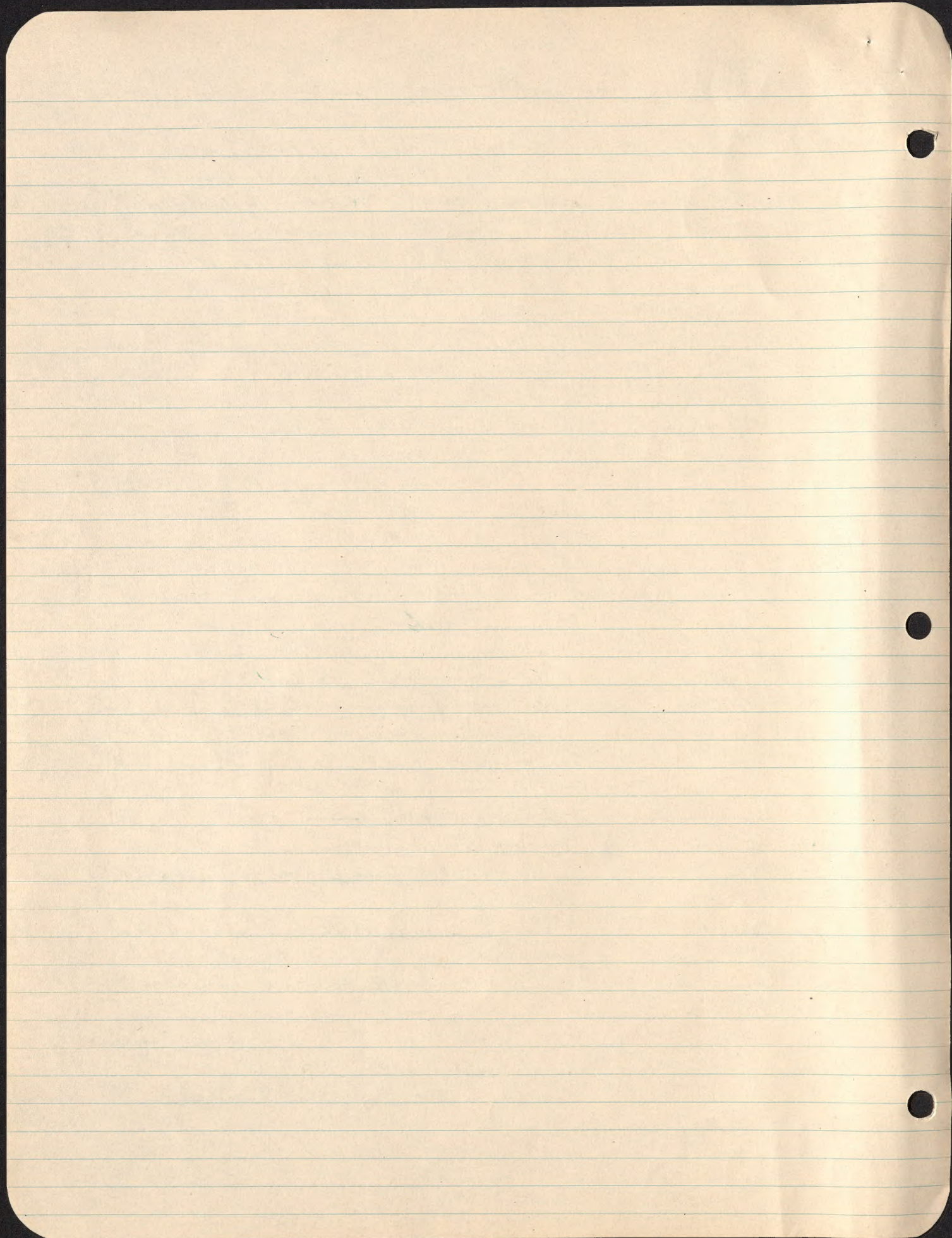
11/18

Lockyeria

4

Primary rain forest margins - main body

18387. *Cyperus*. C. in a clearing. Clumps up to 1 m.; erect.
 95. Tree 5 m. Fls. ? St. black, fleshy, blandly sweet.
 96. *Aristolochia* F. slender vine 2-3 m. Fls. yellow & purple. Toft fleshy leaves.
 99. *Ucacia*. C. on grassy edges. Tree 6-10 m. x 15-25 cm. Fls. wh. Fl. ?
 Bark grey-br., hard, deeply fissured. AMB.
 18427. *Proyria* F. (also in 2nd growth). Shrub 1.5-2 m. Fl. red.
 29. *Panicum* Inq. in shade. 30-40 cm.
 30. *Panicum* Shady edges. ca. 70 cm. Panicles drooping.
 35. *Comp.* C. grassy edges. Shrub 60-80 cm. Fls. yellow.
 71. *Dianella* F. " " Fls. blue.
 92. *Rhipogonum* ? Grassy edges. Vine. Fl. unisexual.
 99. *Tommet.* C. " " Ascending. Fls. blue
 18500. *Tommet.* C. " " Fls. purple-pink. Roots tuberous.
 2. *Xerotes* O. " " Fls. cream
 3. *Tab.* 1 plant " " 20 cm. Fls. purple.
 44. *Solanum* Shrub 2 m. Fls. purple. Fl. red, 7 lobes, ± 15 mm. dia.
 91. *Curatoma* A. in grassy edges. 50-80 cm. Bracts pink.
 92. *Lysodium*. Climbing in long grass of edges. ± 1 m.
 93. *Opistemon* C. in edges. Procentric & ascending culms ca. 1 m.
 95. *Cyperus* Tufted in shady edges. ca. 40 cm.
 96. *Boottia* Under shade of marginal trees. ± 80 cm. 1 tree ^{cut on} ~~cut~~ on still roots.
 97. *Sporosa* Grassy edges. Vine 1 m. Fls. wh.
 18605. *Gram.* Semi-shade of edges. up to 1.5 m.
 26. *Panicum* Inq. in semi-shade. 70-80 cm.
 30. *Tranthemum* C. in rock crevices. ~~about~~ 15-20 cm. Fls. wh.
 31. *Carytha* Various hosts on margins.
 32. *Rhoc.* Large scrambling shrub 4-5 m. Tapering drayish R.F. Fls. cream. Fl. unisexual.
 40. *Polypod.* F. & comp. on rocks & trees. Creeping & nest-forming. 50-100 cm. (large shield leaves).
 41. *Dioscorea* Vine 2-3 m. Tubers eaten by natives.
 43. *Mon.* On dry laterite rocks.
 44. *Mon.* " " " Grey sp. like on Florida cabbage palms.
 18814. *Leea* O. slender tree 5-7 m. Fls. unisexual.
 13. *Enclavia* F. shrub 2-3 m. Fls. cream. Fl. red.



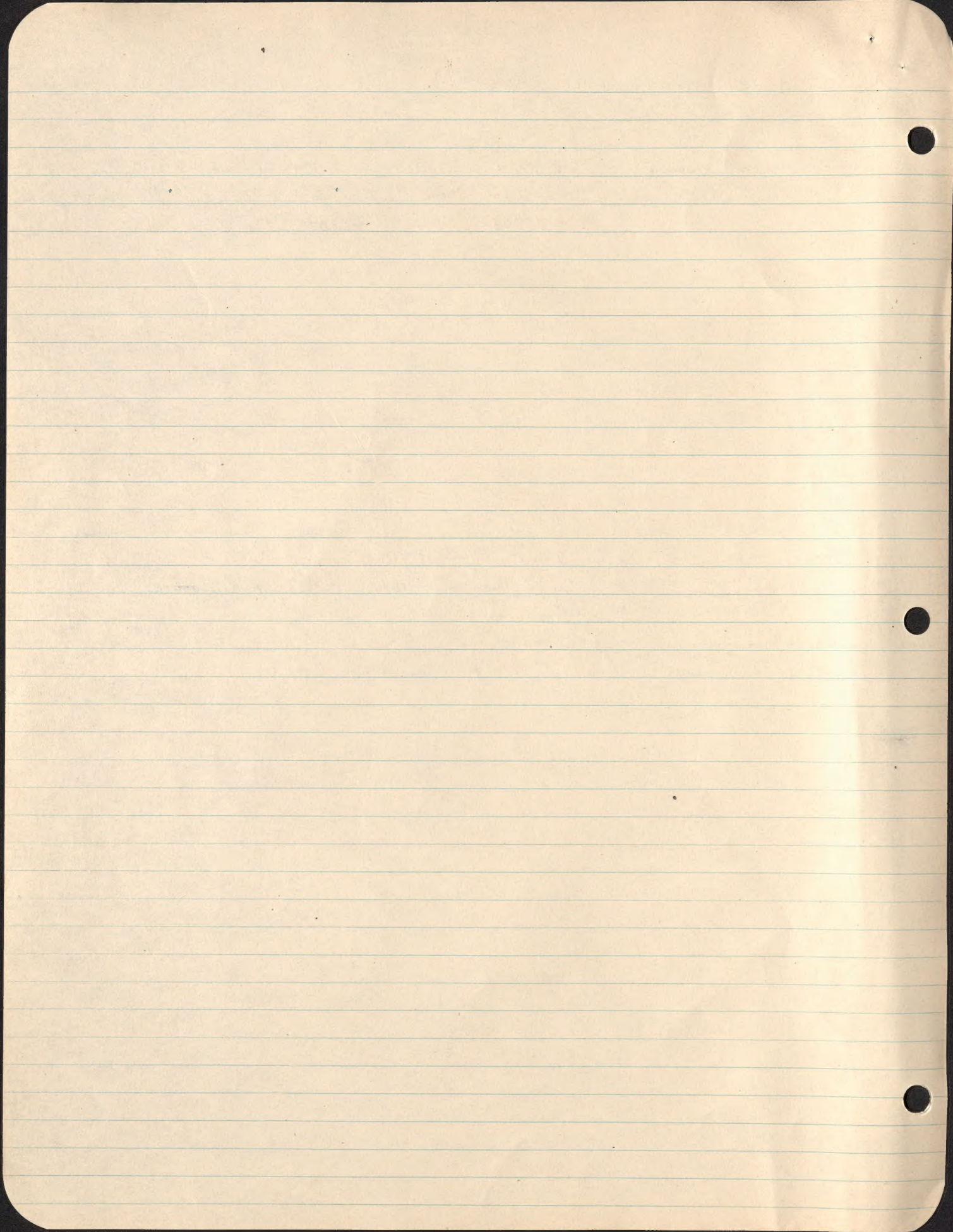
Secondary rain forest:

Trees:

18400. *Alphitonia* A. 8-12 m. x up to 30 cm. Fl. yr.-wh. Fr. ? Leaves ^{below.} grey
 1. *Randia* C. 5-7 m. Fl. ? Fr. large, unripe. Fl. wh., fragrant.
 = 18647. Tree or shrub ~~up~~ up to 5 m.

Other plants:

18397. *Mimosa* Vine 1 m. Soft red fl. in green bracts.
 98. *Fig* *P.* scrambling shrub 2-10 m. Fl. wh. Fr. blk, ^{not eaten} ~~not eaten~~ by natives
 "Wail-a-white". Also in dryish s.f.
 18427. *Prognon* F. (also on R.F. margin). Shrub 1.5-2 m. Fr. red.
 18813. *Euclea* F. shrub 2-3 m. Fl. cream. Fr. red.



Lockhart

6.

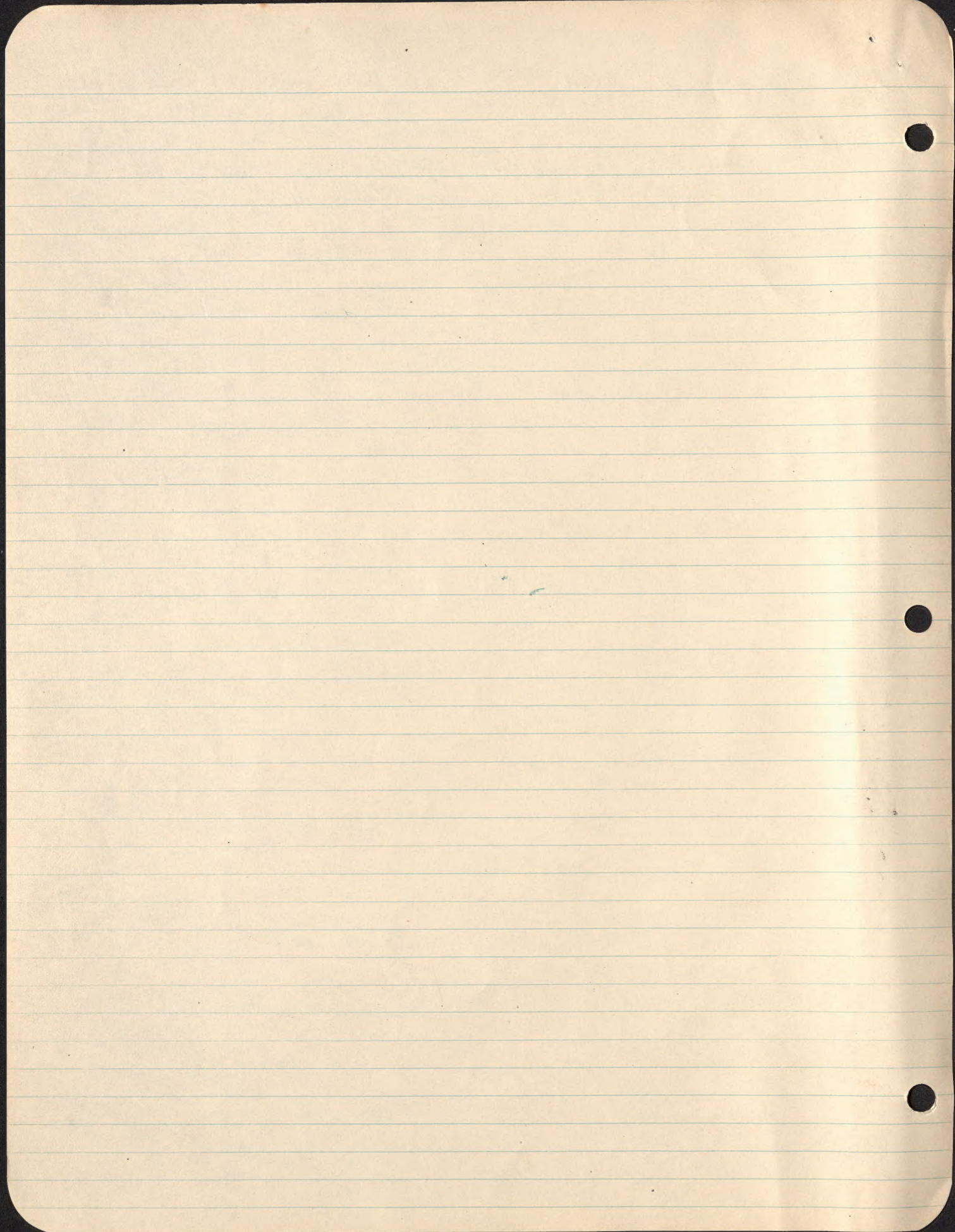
Rain forest "islands"

Scattered in savanna forest.

Trees:

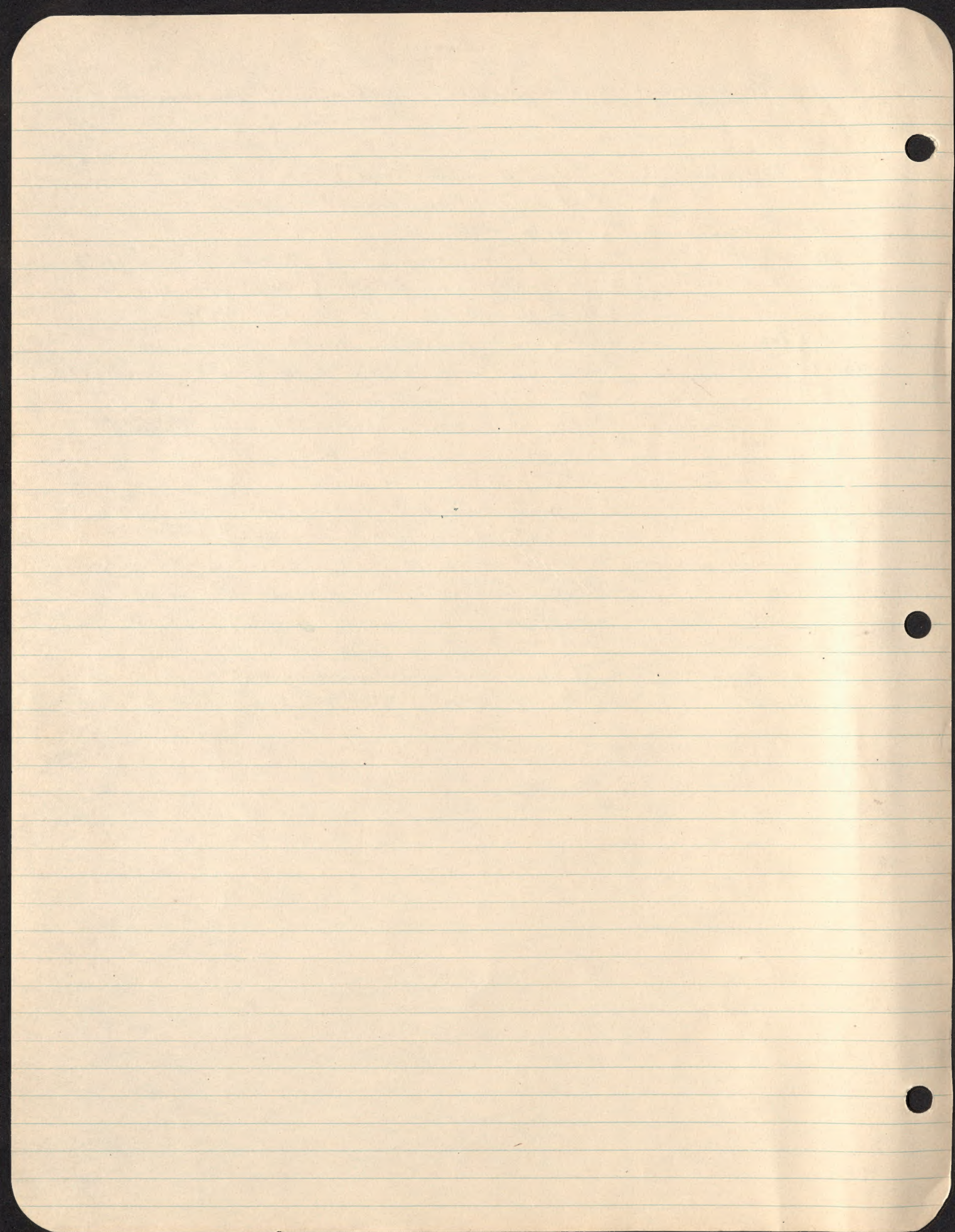
18436. *Terminalia*. In small patches forest on pebbly ridges. 12 m. x 30 cm. Fl. buds. Fl.
blk., eaten by natives. Leaves soft, very convex.

Undergrowth:



Rain forest - gallery woods. On banks of streams in
savanna-forest.

18410. *Sodonara*. F. edges of woods. Tree 6-8 m. x 10-12 cm. Fls. [?] very young.
Bark hard fibrous firm.
411. *Lindsaya*. P. on outer edges. 30 cm.
412. *Aral.* O. tree 3-6 m. Fls. pale pink. Fls. young. Simple or few branched.
413. *Myrt.* O. tree 10 m. x 25 cm. By fls. only. Smooth eucalyptus-like bark.
(A. in open bed of stream - Taradaya Rk.).
416. *Rub.* Edges of woods. Bark 30 cm. Fls. wh.
18537. *Rustia*. Few large clumps ca. 1.5 m. in sandy bank of Taradaya Rk.
Stems stiff; bluish-green.
38. *Wormia alata*. P. tree 10-20 m. x up to 50 cm. Fls. yellow. (also S.F.).
39. *Jacksonia*. O. on outer edges. Tree 3-4 m.
41. *Moss*. On bank of *Wormia alata*.
413. *Tran.* P. on grassy banks shaded by forest & inundated by floods. Sm.
rust clumps 60-80 cm.
45. *Koranthia*. On a tree. Glaucous red, purple & yellow fls.
46. *Tam.* Slender tree 10 m. Fls. greenish. Fls. young.
47. *Rub.* C. in edges (also under shady trees in S.F.). Shrub 1.5-3 m. Fls.
black, fleshy, depressed-globose. ca. 7 mm. dia.
48. *Cyclophorus*. F. thickly. Fleshy leaves crowded in pale green clumps.
49. *Myrt.* O. slender tree 10-12 m. Fls. buds only.



Black Catron scrub:

Body bark.

18505. *Tram.* *Tram. Sc. Through scrub. 60 cm. Lvs few slender erect culms*
06. *Typ.* *C. " " 60-100 cm. Forming stiff clumps*
7. *Pertin* *Chief plant of a very open ground cover. Stems very many drooping stems ± 60 cm.*
8. *Typ.* *Sc. 30-60 cm. Erect usually sol. stems.*
9. *Thryptomena oligantha.* *Chief D. Tree 5-10 m. x up to 40 cm. Fls. wh. Stem usually short & branched near ground. Bark dk. grey, fibrous, fissured. OTUNDUM*
10. *Mimif.* *Climbing 2 m. Fls. ? 81: red, fleshy.*
11. *Dendrobium* *C. epiphytic on branches 1-2 m. from ground. 20-40 cm. Fls. waxy purplish-br.*
12. *Tilia.* *P. & Ch. shrub. 1-2 m. Fls. ^{rose} yellow, dehiscent. Branching a few long, weak branches. APURAMAMU*
13. *Myri.* *One tree seen 8 m x 25 cm. Thick. Drooping branches. Bark br. grey. Thin, fibrous, fissured.*
14. *Spacid.* *{ V.A. tree or shrub 2-4 m. Fls. wh. Much branched, sharply. or depressed, wh. hairy green*
15. *Spacid.* *A. shrub 2-3 m. Fls. wh. Abundantly but rather openly branched.*
16. *Lepidophorum* *Chief D. next to 18505. Tree 8-10 m x 20-30 cm. ^{thick} Fls. only*
- Gabrieia ?* *Much branched rounded crown. Bark gr-br. fissured bark.*
18. *C. herb 3-5 cm. Moist bare sandy soil. Fls. wh.*
30. *Mon.* *On moist sandy soil.*
31. *Mon.* *Grey-green cushions on moist sandy soil.*
- Boya* *P. climber. = fl. of Newcastle Boy.*
- Dischidia spp.* *S. Rafflesiana & 1 or more small spp. V.A.*
68. *Mitella eff. gynophyloca.* *A D. in small patches down Taradaya Tk. Tree 10-12 m x 25-35 Fls. red. Dense crown upright branches. Bark dark grey, rough, fissured.*
71. *Jacksonia* *A. in small patches down Taradaya. Tree or shrub 2-4 m. ^{pink.} Fls.*
- Mopenthes* *C. scattered in openings.*

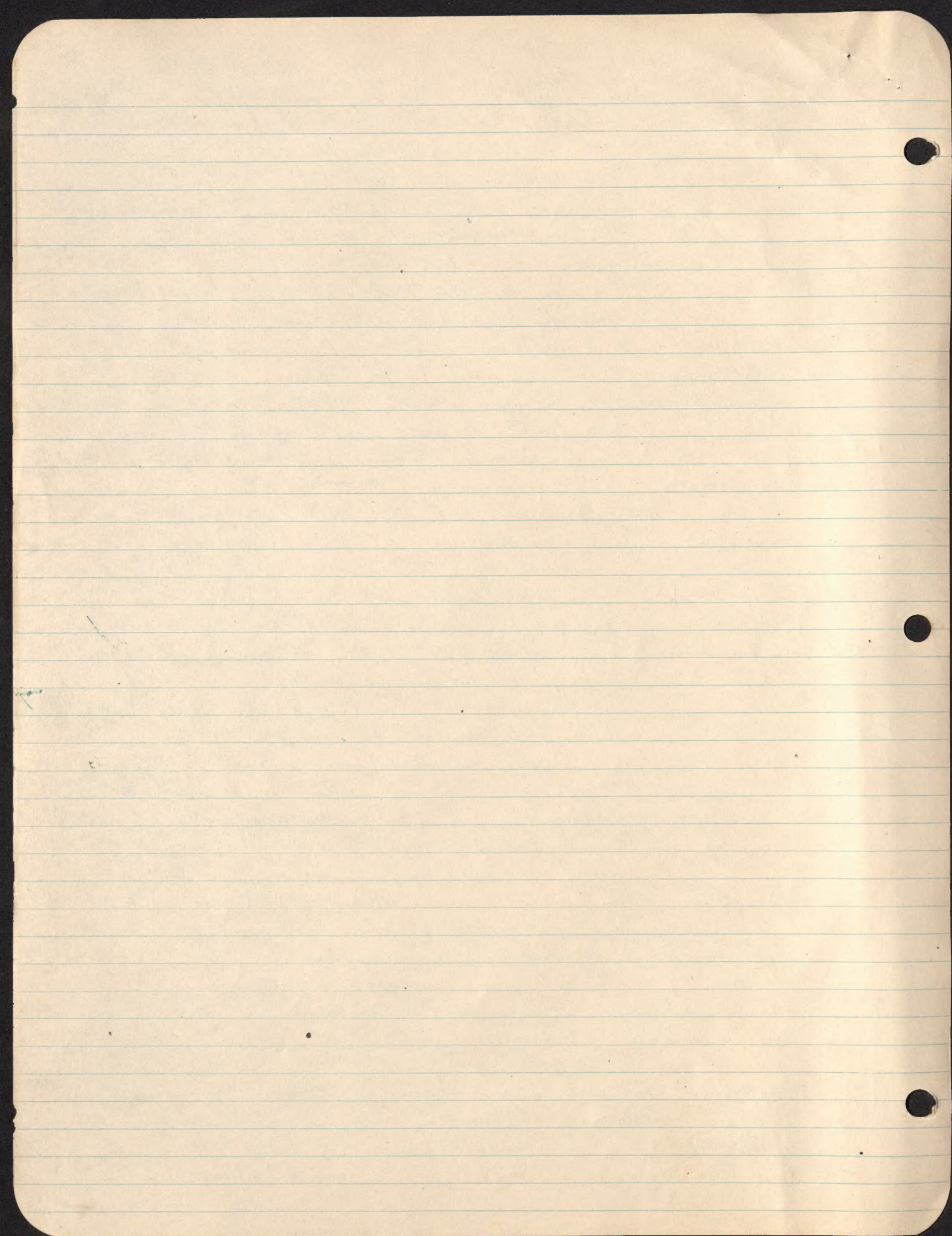
For note on *Eucalyptus* sp. see north of Pandine River
see Journal p. 135.

Savanna forest. Occupying most of the area. Various types, excluding the communities of wet lake flats.

Trees:

18365. ? S. in floodwood S.F. on reddish loam. ± 6 m. Grooping habit. Fls. greenish yellow. Fr. eaten by cattle.
66. *Bankia integrifolia*. O. to 6 m.
99. *Acacia*. C. young saplings R.F. 6-10 m. \times 15-25 cm. Fls. wh. Pods? Bark grey br., hard, deeply fissured. AMBI.
18400. *Alphitonia*. Sc. 8-12 m. \times up to 30 cm. Also secondary R.F.
62. *Plapharsanga*. O. in S.F. of ridges (a R.F. th.).
68. *Mitania longicarpa*. C. throughout on sandy soil. Up to 12 m. \times 40 cm. Fls. yellow, soon-scented. Thin pale br. bark shedding in thin corky scales.
18413. *Myrs*. A. in open rocky bed of Tanderaya. Smooth eucalyptus-like bark. Fr.?
18538. *Wormia elata*. S. (P. in gallery R.F.) 10-20 m. \times up to 50 cm. Fls. yellow.
42. *Acacia* AMBI. P. on sandy soil. Up to 12 m. \times 25 cm. Fls. cream. Fr.?
51. *Ganga floribunda*? C. in SE adjacent to R.F. Up to 20 m. \times 50 cm. "Gum tree" or ARBATANO. Gum a resin used for cementing spear heads.
52. *Pandanus* sp. C. & in places forming small groves on sandy soil. 6-8 m. 190-10.
66. *Basuarum* Few trees growing on a dry sandy slope (20 m.). 6-10 m. \times up to 20 cm.
18607. *Mel. leuc.* var. F. on acid sandy flats. 6-8 m. Fls. very pale green. Branches crooked. Whitish papery bark.
11. *Mitania* C. on sandy soil. Up to 20 m. \times 50 cm. Fr. up. Short thick trunk. Brown spreading. Bark br., fibrous, flaky.
12. *Eucalyptus* C. on greyish sandy soil. Up to 15 m. \times 40 cm. Fr. buds only. Smooth grey or brownish bark. Branches often pendulous. "Bottle gum".
13. *Mel. leuc.* var. P. thar. large tree of stream banks & waterholes. Up to 25 m. \times 30 cm. Fls. cream; heavy burnt sugar odor. Branches drooping. Bark papery, greyish to brownish-wh.
22. *Erythrophloeum*. F. in floodwood SE on a hard pebbly volcanic ridge. 7-8 m. Sterile
- Parinarium nuda*. C. & growing in fairly large size.
- Bloodwood* 12p. The most common eucalypt.
- Mitania macrodon* P. on sandy flats: big trees.
- Emviller striata* C. locally. T. shrubs.
- Emeline* O. large leaves.
- Erythrina*. Pale corky bark. Slender fl. 1-12 m.
- Ganga australis* F. smaller trees.
- Monter Bay Wood* P. especially about ridges R.F.
- Xanthostemma crenulatum* (#19140) "Tree north of Pandanus River".

Same but not
corky bark.



Savanna forest

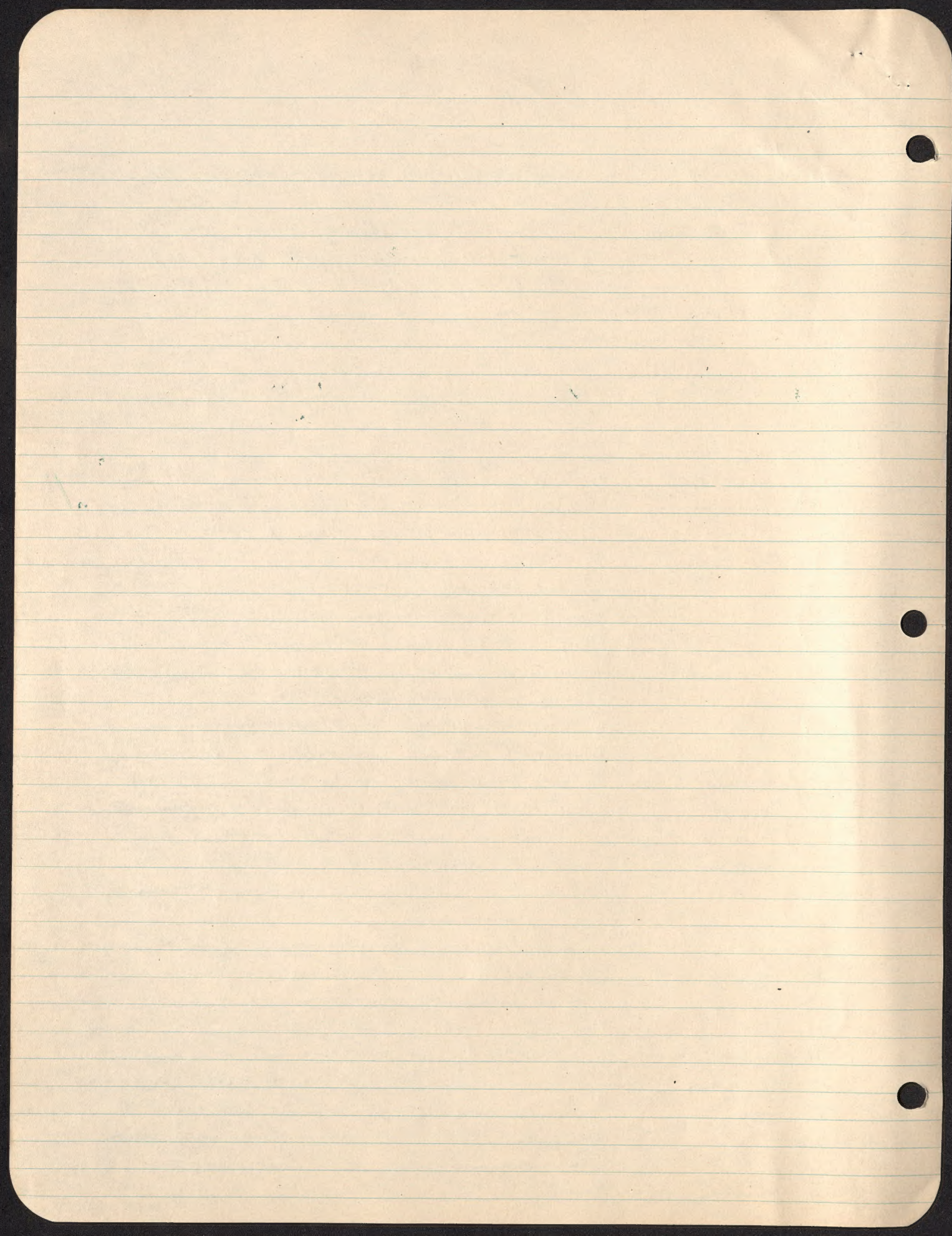
Shrubs

18403. *Euphorbia*. C. on sandy creek flats. 50-80 cm. Stem erect from thick woody stock.
 85. *Euph.* C. ca. 1.5 m.
 18501. *Boerhaavia* 1 plant on grassy bank of a stream. 1 m. Fl. not seen.
 47. *Rub.* F. under shrubby trees (also in R. & G. Valley woods). 1.5-2 m.
 Fl. black, fleshy, depressed-globular. ± 7 mm. diam.

Wepenthes

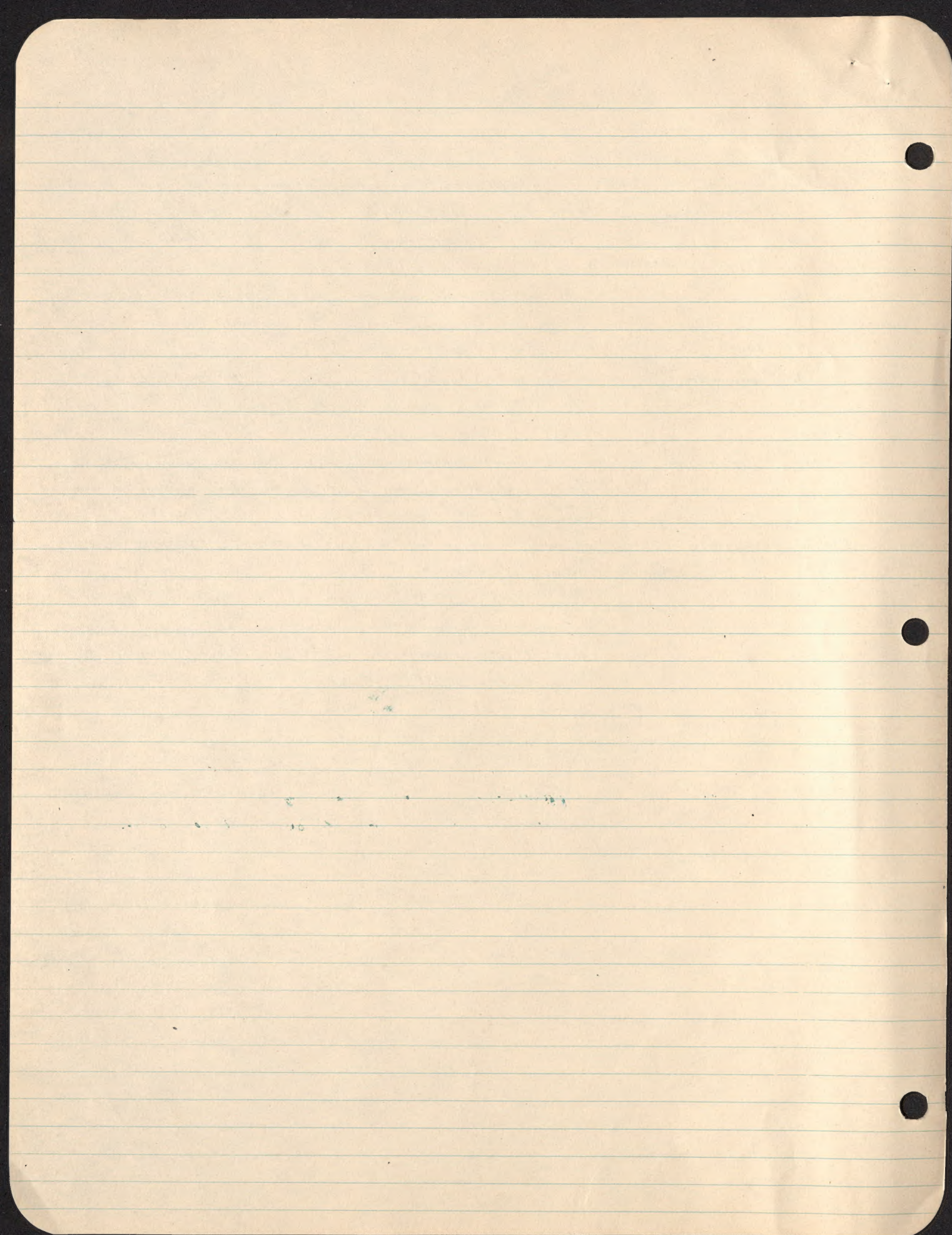
Grasses

18367. *Heliotropis* F. on reddish lateritic soil. 80-100 cm.
 68. *Pennisetum*? B. Char. sp. on reddish lateritic soil. Few erect culms ± 1.5 m.
 69. Erag. in openings between taller sp. ± 80 cm.
 71. *Heliotropis insignis*. B. Char. sp. on reddish lateritic soil. Clumps of few erect culms up to 2 m.
 73. S. red soil ridges. ca. 1.5 m.
 75. O. on hard red lateritic ground. 40-60 cm.
 78. Erag. on pebbly lateritic soil. 40-70 cm.
 93. *Heliotropis*? Sc. in old clearing in r.f. 70-90 cm. Erag. scrubby spikelets (common).
 18405. O. sandy treeless patches on creek flats.
 09. O. sandy river fringes. Small tufts ± 80 cm.
 14. Erag. locally on treeless sandy patches. Small erect tufts 50-60 cm.
 19. *Brachiaria* Towering treeless sand patches on creek flats. 80-90 cm.
 20. *Eragrostis* H. with 18419. Few erect culms. Spikelets reddish. 80-90 cm.
 22. *Eragrostis* P. " 30 cm. Narrow tufts sprawling culms up to ca. 1.5 m.
 42. *Panicum* S. amongst tall grasses. Up to 50 cm.
 62. *Eulalia*? Erag. locally on open sandy patches on ridges. 30-60 cm. Spikelets
 glistering dark brown.
 65. *Themeda* Sc. on moist sandy soil. Clumps few stiff erect culms ca. 120 cm.
 66. *Eragrostis* Sandy soil
 67. C. moist sandy soil. 100-130 cm. Tufts of few erect culms
 75. Low sandy soil.
 76. *Styphelia* F. on banks of streams. ca. 1.5 m. Tufts 2-3 erect culms.
 77. *Hybanthus* S. sandy soil. 1-1.5 m. (used to poison bandicoots!).
 78. Sc. amongst tall coarse fl. C. 1 m. Tufts normal drooping culms.
 79. Floodbanks. 80 cm. Tufts many upright wing culms.
 80. O. " seasonal stream. 80 cm. Tufts normal erect stiff culms
 81. *Brachiaria* Few tufts " " 1 m.



Savanna forestGrasses cont.

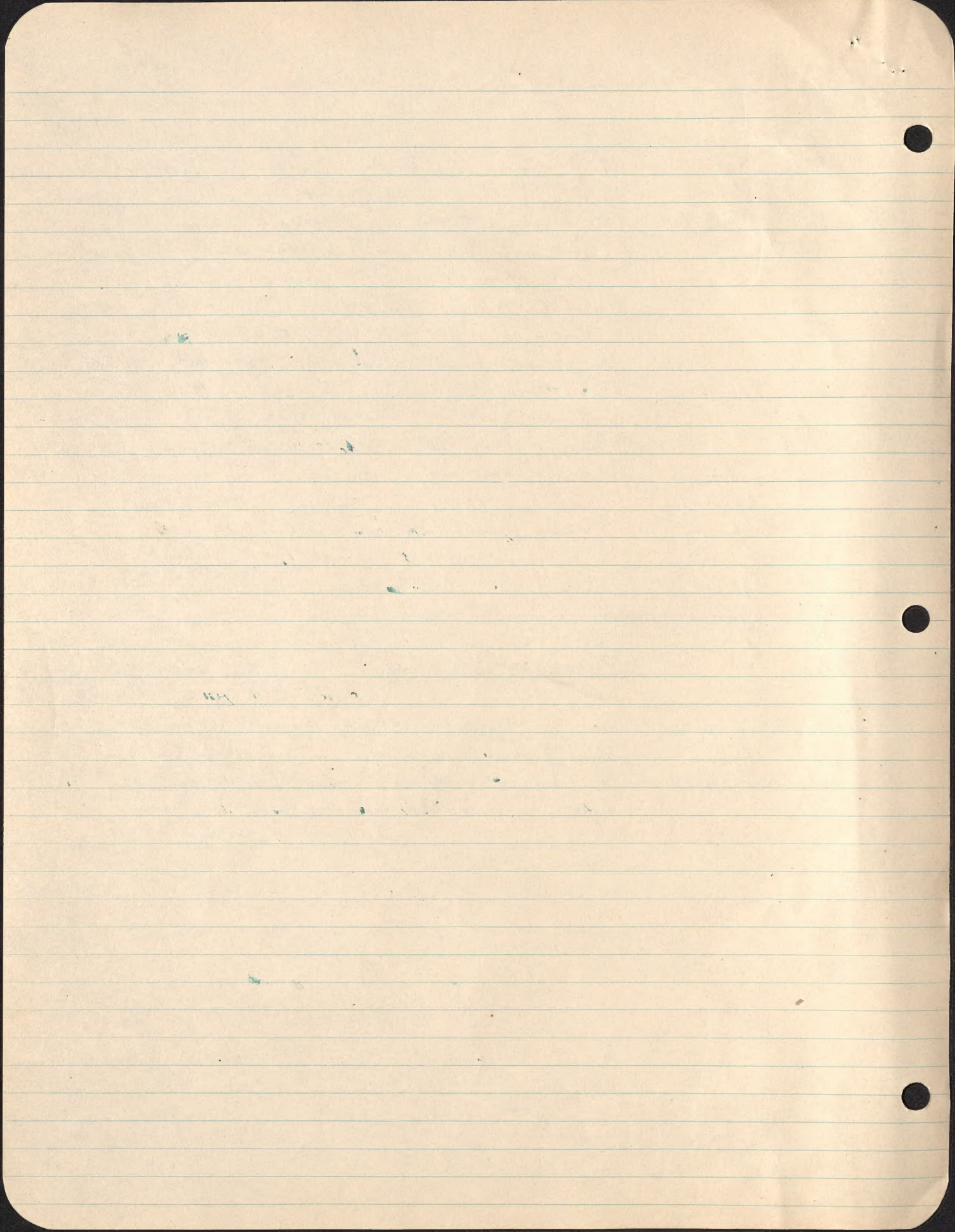
18482. Sc. on floodbanks. Tufts many drooping wing culms 30-70 cm.
 83. *Sacciolepis*. Wet sandy floodbanks of a seasonal stream. Panicle fleshy.
 90. Sc. in a damp watercourse. \pm 2 m. Culms nod, usually solitary
 91. *Themeda* Sc. uncommon. up to 1.5 m.
 94. Sc. in a moist watercourse. 70-90 cm. Tufts few and stiff culms
 95. 1 large clump on a limestone mound.
 96. *Sorghum* S. on sandy soil. up to 1.5 m.
 97. *Pennisetum*? C. in moist watercourses. up to 2 m. Mostly panicle fruiting.
 98. Sc. " " " 70-90 cm.
 18554. Erag. on hard sandy ground.
 90. *Andropogon* O. in moist watercourses. Tufts of few culms 1-1.5 m.
 98. A. on pebbly laterite ridges. 40-80 cm. Erect culms 1 or several in small tufts
 99. Local " " 30-50 cm. Spikes silvery
 18614. *Eragrostis* Sc. tufts (Briza-like) on moist sandy floodbanks. 60-80 cm.
 18. Sandy floodbanks. 80 cm.
 19. Wet sandy floodbanks. ca. 40 cm. Spikes purplish
 23 C. on a hard pebbly floodwood ridge. 20-30 cm.
 37. Erag. locally on sandy bank. 60-80 cm. Panicle drooping. Spikes reddish.
 42. Erag., close to R.F. 30-50 cm.



Savanna forest

Ridges:

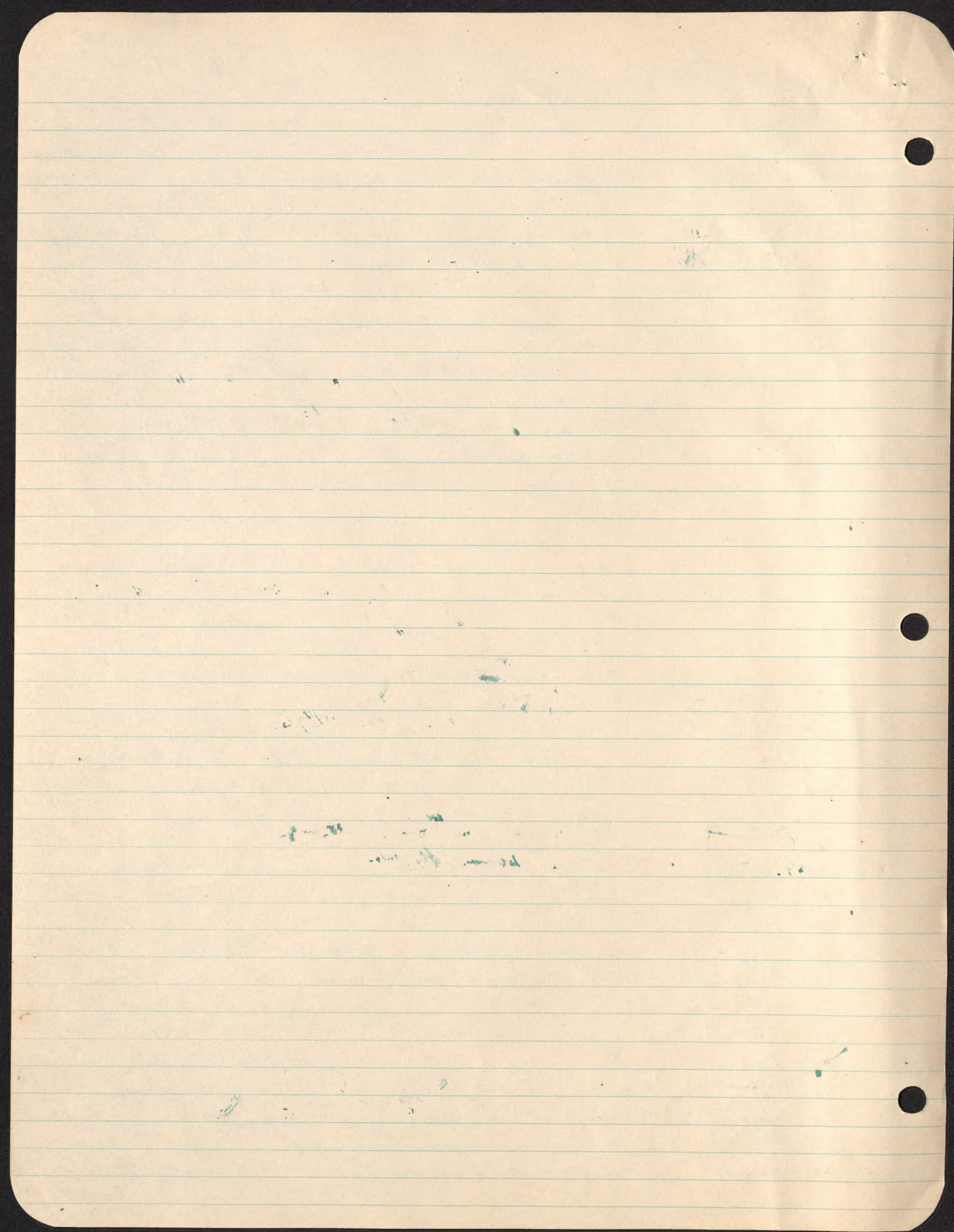
18370. *Euphorbia* S. on reddish lateritic soils. 50-70 cm. Erect. soft stems.
72. *Euphorbia* S. " " " " 60-100 cm. " " "
18406. *Rhynchospora* O. sandy creek fringes. 30-50 cm.
71. C. treeless sand patches on creek flats. Blue-gr. Stems several
moist stems 70-100 cm. Rhizome prostrate.
40. Roadside. 10-15 cm. Bluish-green.
43. C. locally on moist ground. 10 ~~to~~ 45 cm.
45. One plant in moist sandy soil. 30 cm.
46. *Euphorbia* Moist sandy soil. Blue-gr. 10-25 cm.
53. S. moist sandy soil. 30-80 cm.
54. S. amongst small annual grasses on hard pebbly ridges. ca. 20 cm.
58. *Euphorbia* O. moist sandy soil. 30-70 cm.
59. *Rhynchospora* C. locally on hard lateritic ridges. 10-40 cm.
60. *Scleria* S. among small annual grasses on hard pebbly ridges. up to 40 cm.
61. *Scleria* S. in S.F.
72. *Scleria* O. clumps on moist bank stream. ca. 1 m.
73. *Euphorbia* Sc. grassy flood banks. 30-100 cm.
84. *Euphorbia* Trig. in wet sandy bottom of a seasonal stream. 20-30 cm. Fleshy.
18540. *Euphorbia* C. locally on creek banks inundated by high floods. Very many
wing stems in clumps \pm 60 cm high.
18606. *Rhynchospora* C. on open sandy creek banks. 30-40 cm.
8. *Euphorbia* Few *Juncus*-like tufts 40-70 cm. in sandy bed of a stream.
33. *Euphorbia* Few tufts in a sandy watercourse. up to 1.5 m.
36. C. in a sandy watercourse. 60-80 cm. \pm glaucous.



Savanna forest

Herbs:

18376. Fern. C. locally under corn tall grasses on red lateritic soil. 30-40 cm.
77. F. under dense " " " 15-25 cm. Wh. fls.
79. Leg. F. amongst tall grasses. Prostrate. Fls. purple. Inflated bl. fls.
80. Rub. C. locally on pebbly lateritic soil. 30-50 cm. Comp. pale blue a lavender fls.
81. Leg. (Eriolobos?) S. red lateritic soil. 25-45 cm. Yellow petals hidden in large lvs.
82. Eriolobos C. " " of ridges. 30-40 cm. Fls. yellow. small
18404. Rub. C. locally on sandy creek flats. Ascending 60-80 cm. Fls. reddish-purple.
07. Turneraeae? C. on sandy creek flats. Woody. 50-70 cm. Fls. yellow. Woody stems from hard woody stock.
17. Comp. Bank of a stream. Perennial herb to 80 cm. Fls. yellow.
18. Commel. S. on sandy creek flats. Herb. 10-25 cm. Tang. yellow fls.
23. Zizoc. S. " " " ca. 15 cm. Fls. white.
24. Biophytum O. " " " 3-15 cm. Fls. reddish.
25. Phyllanthus S. " " " 40-80 cm.
28. Borag. S. sandy soil. 15-20 cm. Fls. wh.
31. Tricoryne S. sandy creek flats. Fls. yellow.
32. Comp. F. " " " 20-30 cm. Fls. yellow.
33. Pinelca S. " " " Fls. wh.
34. Leg. O. on lateritic ridges. Trailing branches ca. 1 m. Fls. wh.
35. Comp. C. grassy ridges of R.E. 60-80 cm. Fls. yellow.
37. Legum. S. on pebbly lateritic ridges. Perennial 40-50 cm. Fls. purple.
39. Legum. S. lateritic ridges. Ascending. Fls. orange. (small plant).
41. S. among small annual grasses on hard pebbly ridges. 20-30 cm. Fls. yellow.
44. Legum. S. damp sandy soil. 10-20 cm. Fls. yellow.
47. S. among small annual grasses on hard pebbly ridges. 25-70 cm. Fls. yellow.
48. Legum. S. moist sandy soil. 8-20 cm. Fls. yellow.
49. Scroph. C. locally on moist sandy soil. 10-20 cm. Fls. violet.
50. Gooden. 6-12 cm.
51. Polygal. Moist sandy soil. 10 cm. Fls. blue.
52. Buchnera S. with small annual grasses on hard pebbly ridges. Fls. wh.
53. Hackelia S. " " " " " 40-70 cm. Fls. green.
56. Syllidium? Local on moist sandy soil. ca. 10 cm. Fls. wh. & purple.
57. Legum. S. " " " " " Ascending. Fls. blue.
63. Legum. 1 plant on hard lateritic soil. Fls. orange-yellow.
64. Legum. C. locally throughout, on wet soil as well as dry. 40-60 cm. Wh. fls. Many branches returned from woody stock.
68. Legum. Amongst small annual grasses on hard lateritic ridges. 20-30 cm. Fls. yellow.



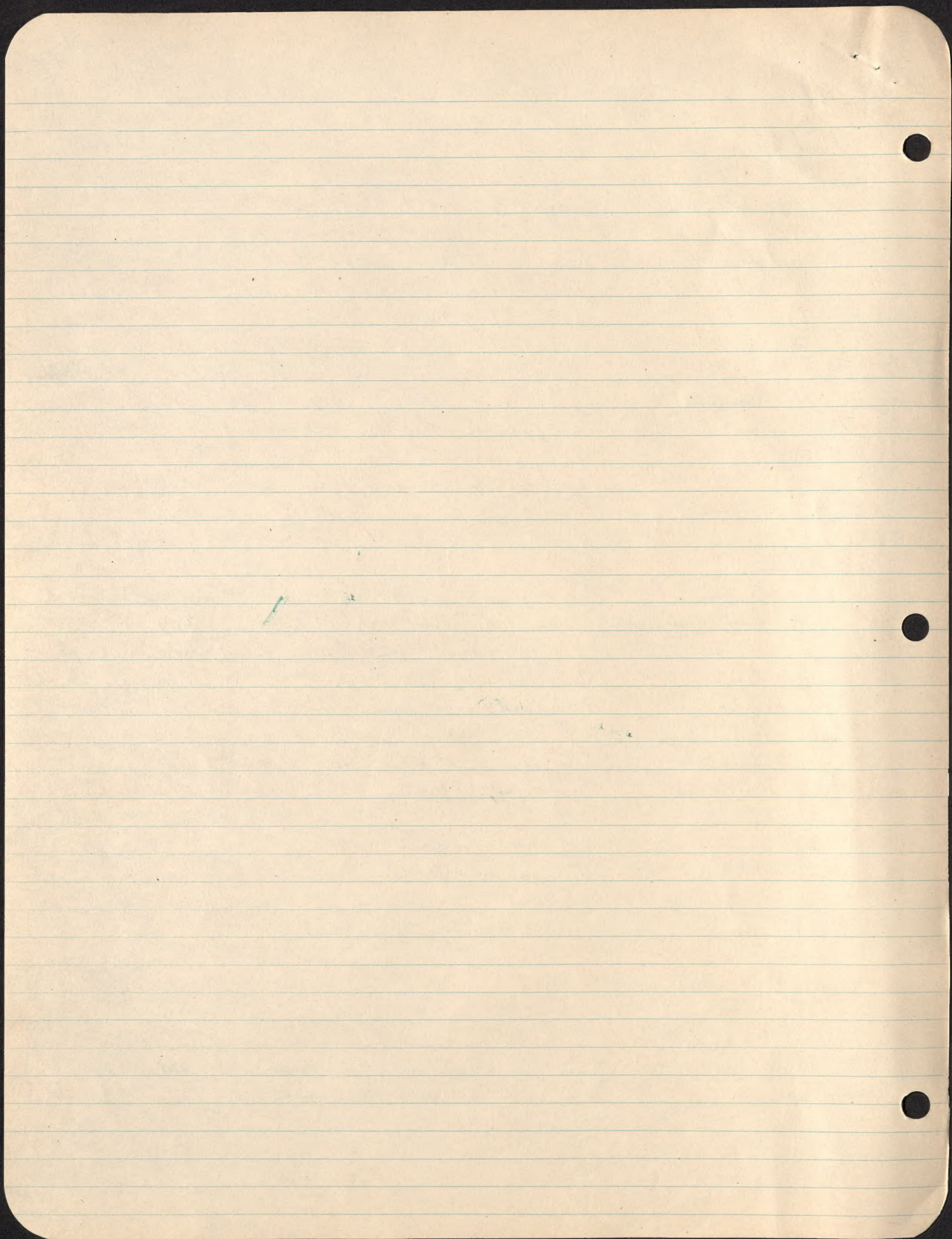
Savanna forest

Herbs. cont.

18469. *Xeroloe*. Fringing edges of R.F. Fls. wh.
 70. *Ziz.* F. " " " " ca. 15 cm. Fls. wh.
 71. *Dianella*. F. " " " " Fls. blue.
 86. *Utricularia*. Local. wet grassy bank of a stream. 20-25 cm. Fls. purple.
 87. *Lygon.* S. Fls. yellow.
 88. *Drosera*. Terrestrial plant on wet grassy bank of a stream. Fls. pink.
 89. *Polygal.* " " " " 10-15 cm. Fls. purple.
 93. *Polakania*. S. banks of a stream. 20-30 cm. Fls. yellow.
 18550. *Tab.* S. 15-60 cm. Fls. wh. Aromatic.
 { 53. *Ipomoea*. Twining on grass. Fls. wh.
 63. S. on thick grassed sandy patches. 15 cm. Fls. wh.
 64. S. " " " " 6-15 cm. Fls. purplish-white.
 65. S. " " " " 10-25 cm. Fls. cream white, fr. without.
 74. *Lygon.* C. " " " " Fls. purple.
 91. *Curcuma*. A. in long grass near R.F. 50-80 cm. Past flowering. Bracts pink.
 18660. *Forma mimosoides* S. on well drained soils. Up to 80 cm. Fls. yellow.
 01. *Vigna* S. in long grass. Under 1 m. (vine). Fls. purple.
 02. *Lygon.* P. but generally thick. \pm 30 cm. Fls. purplish-red.
 03. *Buchnera* Assoc. with annual grasses on pebbly ridges. 15-35 cm. Fls. wh.
 04. *Thysanotus* S. on pebbly ridges. Fls. purple.
 09. *Buchnera* S. on open sandy creek floor. 50-70 cm. Fls. wh.
 20. *Breweria* Frag. locally in broadwood SF on a hard laterite ridge. Fls. blue.
 21. S. " " " " 8-25 cm. Fls. pink.
 27. *Tacca* S. & unc. 40-50 cm. Fls. only.
 29. *Buchnera* Sc. 40 cm. Fls. wh.
 30. *Buchnera* S. & local. Fls. wh.
 39. *Comp.* F. 50-100 cm. Fls. purple.

Epiphytes & Parasites

18532. *Viscum* On *Eucalyptus* sp. Fls. greenish-wh. \pm 4 mm. diam.
 40. *Polypod.* F. on trees & rocks near R.F. 60-100 cm. (Shield fronds).
 18645. *Moss.* A. in green patches on trees near R.F.



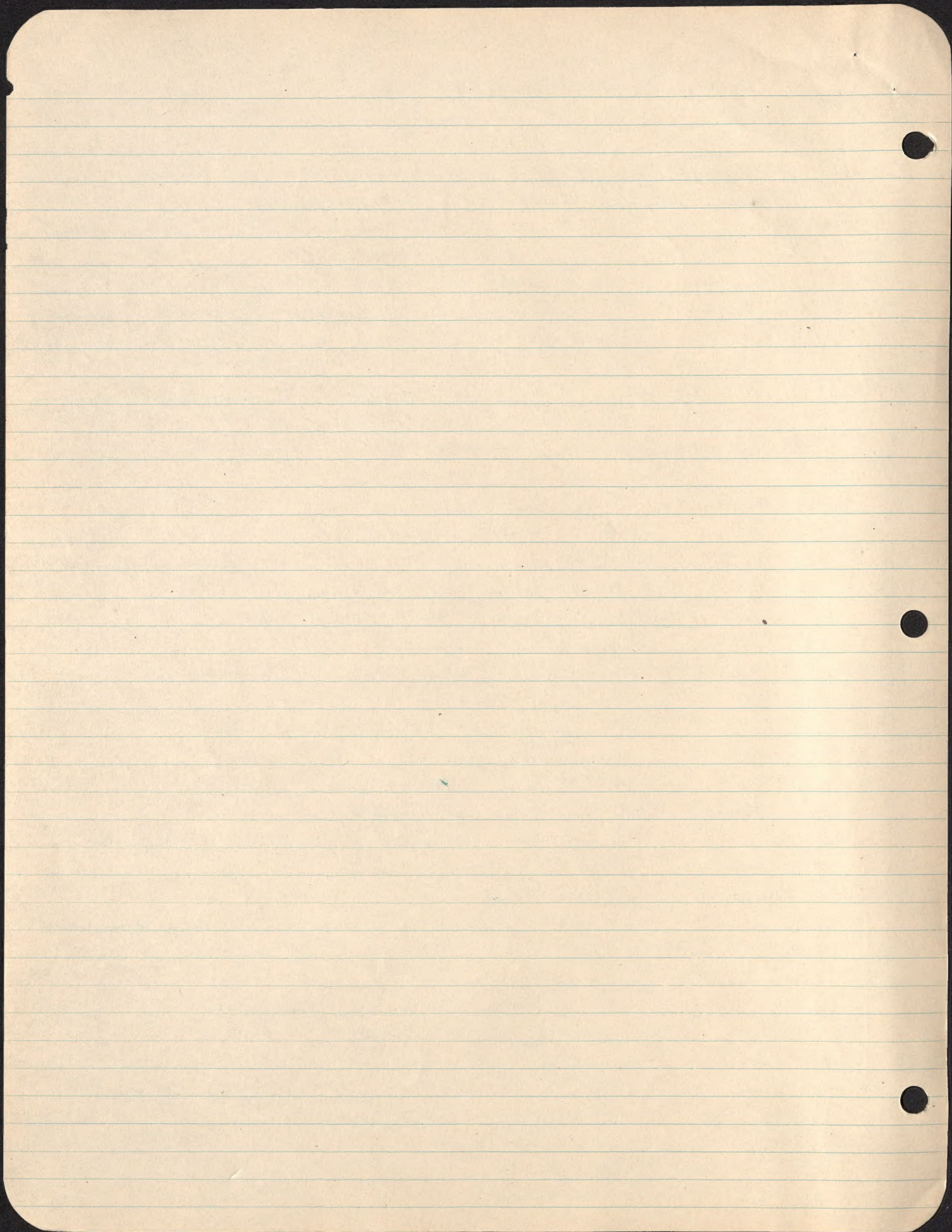
Savanna forest of wet-land flats

Trees:

18351. *Mel. symphyocarpa*. F. 6-10 m. x up to 25 cm. Yellow-orange; branches drooping.
 66. *Banksia integrifolia*. F. up to 6 m. Very pale yellow fls.
 18529. *M. laevis*. C. 7-10 m. Fls. gr.-wh. Bark of stem & main branches papery, other bark smooth, brownish.
 76. *M. laevis* var. O. with other forms. 5-6 m. Fls. red, very strong. Fine stiff crooked branches. Whitish papery bark.
 77. *Boerhaavia*. O. with *Melaleuca* on very sandy flats. 10 m. Fls. yellow. P. ?
Phyllodes ± glaucous. Petioles brown.
 18818. *Erwinia chrysodendron*. C. on moist sandy flats, sh. Branches to 8 m. Fls. golden yellow.
 Just beginning to flower in mid-May.

Other plants:

18349. *Pin. bristly*. C. 40-50 cm.
 352. *Ruellia*. A. up to 80 cm. Drooping habit.
 354. *Xerolobos*. 30-40 cm. Leaves used for baskets.
 355. *Xyris*. Sc. 70-90 cm. Yellow, cesp. fls.
 57. *Scleria*. Unc. 35 cm. Erect. Nuts pale br.
 58. *Scleria*. A. 40 cm. Drooping habit. Nuts wh.
 59. *Euph.* C. 50 cm. Plant blue-gr., weak & drooping.
 60. *Euph.* A & Inf. 20-25 cm.
 61. *Commel.* C. 20-30 cm. Pale purple fls.
 62. *Euph.* O. Weak, sprawling.
 63. *Euph.* A. ~~Sc.~~ 40 cm. Weak, sprawling.
 64. *Tram.* A. Upright small clumps ± 1 m.
 18517. *Utricularia*. Sc. in thin ground cover of grasses & sedges. 3-3.5 m. Fls. wh., minute.
 19. *Utricularia*. C. ~~Sc.~~ 3-6 cm. Fls. wh.
 20. *Utricularia*. Sc. or grouped. 12-20 cm. Fls. wh.
 21. C. 4-7 cm. Herb. Fls. salmon pink without, ^{wh.} ~~pink~~ within.
 22. *Utricularia*. Rare. 10-18 cm. Fls. yellow within, red without.
 23. *Utricularia*. 1 plant. 5 cm. Fls. yellow.
 24. C. 6-20 cm. Fls. pink. Leaves fleshy.
 25. *Commel.* C. up to 25 cm. Fls. wh.
 26. *Broom.* Sc. 5-15 cm. Fls. wh.
 28. *Juncoph.* Inf. on wet mud. 6-15 cm. Fls. dark purple. Fls. fleshy.
 33. *Euph.* C. 60-80 cm. Erect, usually 201. stems.
 34. *Euph.* P. 30-50 cm.
 35. *Euph.* P. 50-60 cm.
 36. *Tram.* C. 30-100 cm.



Savanna forest of wet - bottom flats

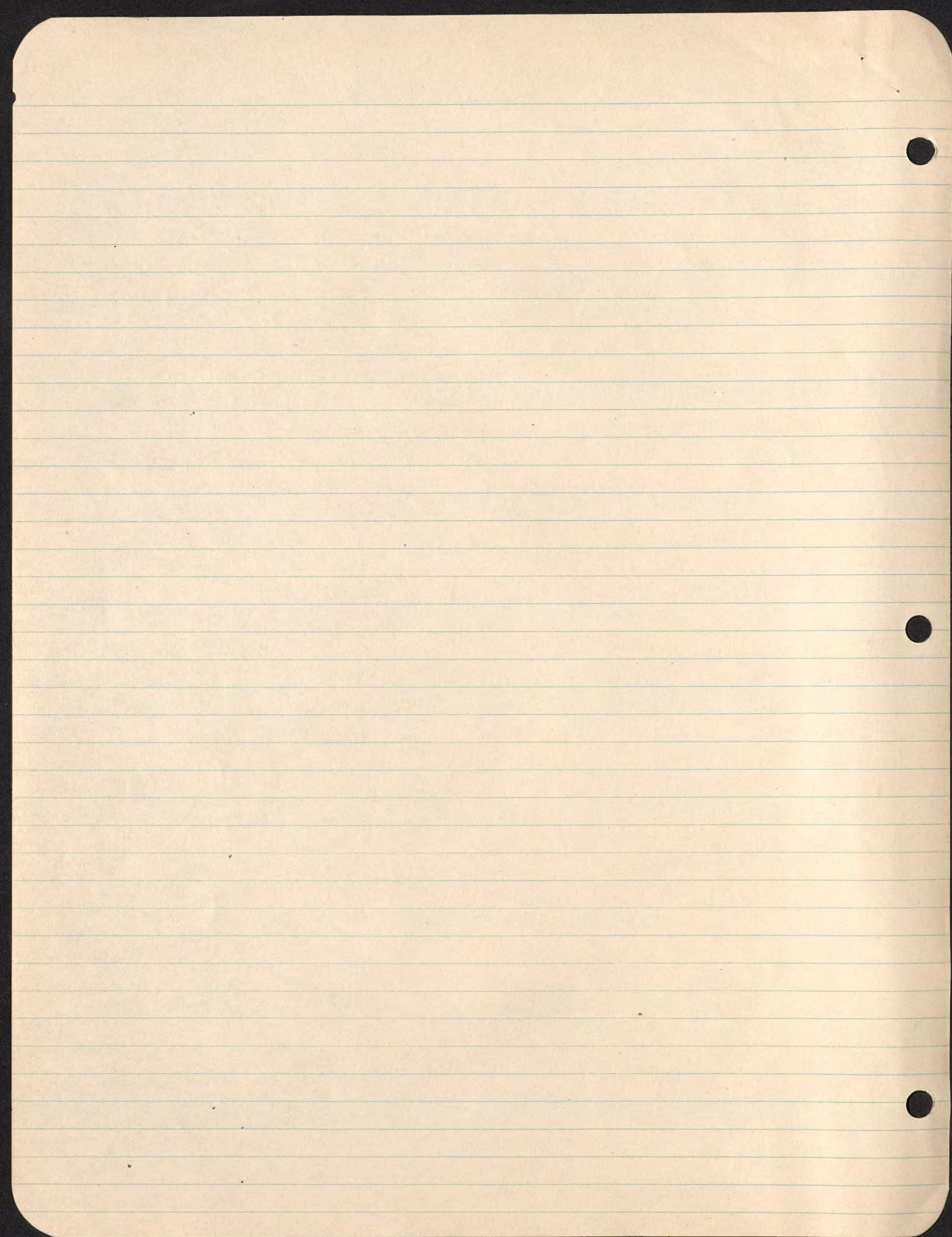
Other plants, cont.

Blonon Tanager & Th. on top of the head.

18555. *Utricularia*. Several plants on one flat: 3-4 cm. Fls. purple.
 56. *Bommal.* Sc. on one flat: 20-30 cm. Fls. pink.
 57. *Scroph.* T. 15-30 cm. Fl. tube dark pink, lobes very pale pink.
 58. *Gram.* Sc. amongst sedges. 80-100 cm. Stem stiff, erect, usually 1.
 59. *Xyris*. Sc. 60-80 cm. Fls. yellow. Leaf bases red.
 60. *Utricularia*. Sc. 4-15 cm. Fls. violet.
 61. *Scroph.* T. on moist flats. 10-30 cm. Fls. violet-blue.
 62. T. " " 30-35 cm. Fl. buds blue.
 72. *Utricularia* S. 3-5 ^{cm} Fls. yellow.
 73. *Utricularia* S. 3-7 cm. Persistent purple-br. calyx. Fls. yellow.
 75. *Xyris* C. locally. 50-70 cm. Fls. yellow. Proud clumps of many stems.
 78. *Scroph.* Sc. Herb 10-50 cm. Fls. pink.
 79. *Euphorb.* C. locally. Perennial herb 30-40 cm. Fls. green.
 81. *Podium* C. locally. 40-50 cm. Fls. violet.
 82. *Eph.* C. locally. Annual. 15-20 cm.
 83. *Bommal.* C. 30-50 cm. Fls. yellow.
 84. *Logum.* C. locally. Herb 20-60 cm. Fls. yellow. Spreading & ascending.
 85. *Thysanotus* C. locally. 30-40 cm. Fls. purple. Leaves erect.
 86. *Utricularia* A. " 10-25 cm. Fls. yellow within, red without. Very strong sp.
 87. *Benthoopsis* Gr. locally. 5-12 cm. Filaments red. Stems viscid.
 88. *Eriocaulon* P. 8-10 cm.
 89. C. Herb 10-20 cm.
 18624. *Gooden.* C. locally. Herb 30-40 cm. Fls. blue-lavender
 90. *Utricularia*. Several plants, grouped. ca. 30 cm. Fls. purple.

Myrsine

Scattered.



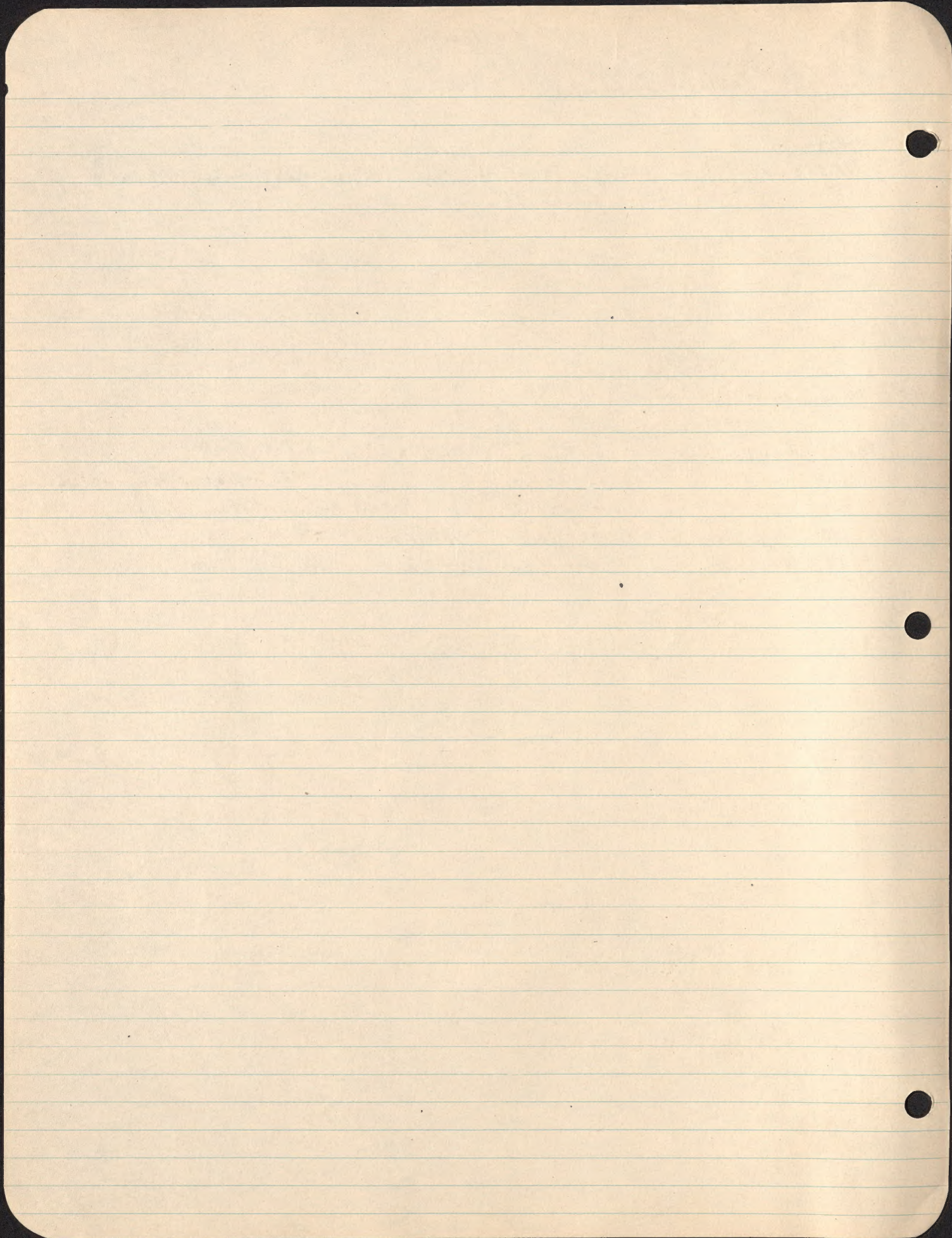
Tree swamps. Seasonal.

Trees

18350. Mel. leuc. vel. aff. ^{x 25-35 cm.} 15-20 m. Paper bark; upright branches. Whitish, honey
scented fls.

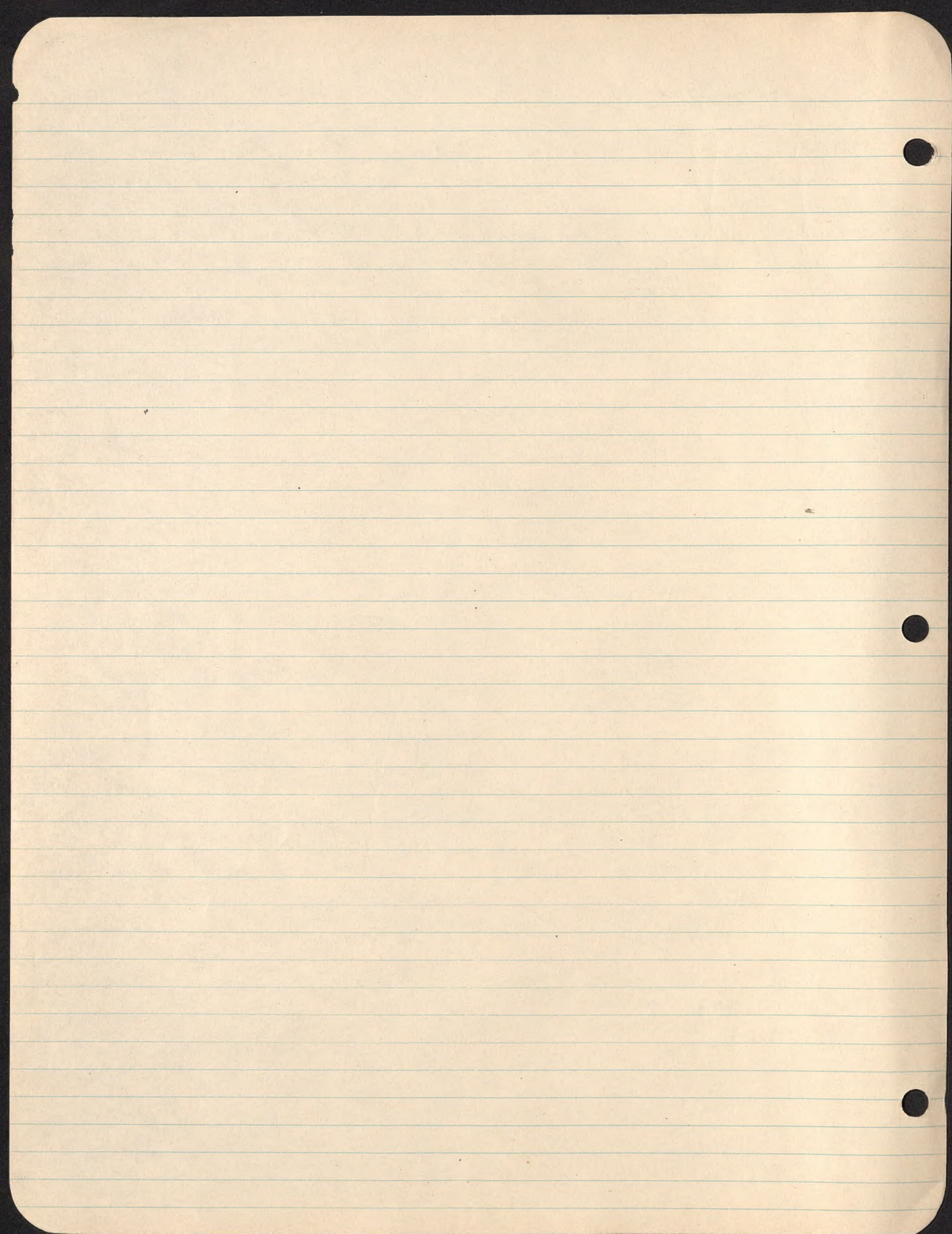
Other plants:

18346. *Ben tranthusa* F. 8-30 cm. White & pink.
347 " 15-20 cm. " " " Less hispid than 18346
348. " 10-20 cm. Yellow. Tree-herb. Water plant.
353 *Cyp.* O. 80-120 cm. *Musa helix*.
56 *Eriocaulon* P. shallow swamps. 8-10 cm. Grey-wh. heads



Water plants:

18348. ? 10-20 cm. Yellow. Also in baton swamps.
474. *Eriocaulon* Fl. in shallow seasonal streams. Only the fl. heads above water.
18610. *Naia*? Totally submerged in still water of a lagoon. ca. 50 cm.
15. *Nymphaea* Fl. in small waterholes. Fls. blue with purple tinge. Fragrant.
16. *Panicum* In a shallow waterhole with sandy bottom. Tussocks reaching up to 1.5 m. long.
17. *Leersia* In a shallow waterhole with sandy bottom.



Newcastle Bay.

Camp at MARU Point, 22 miles S. of Port Moresby.

Rain forest. p. 20

Sand dune scrub of coast. 22

Littoral forest. 25

Black Gum scrub 26

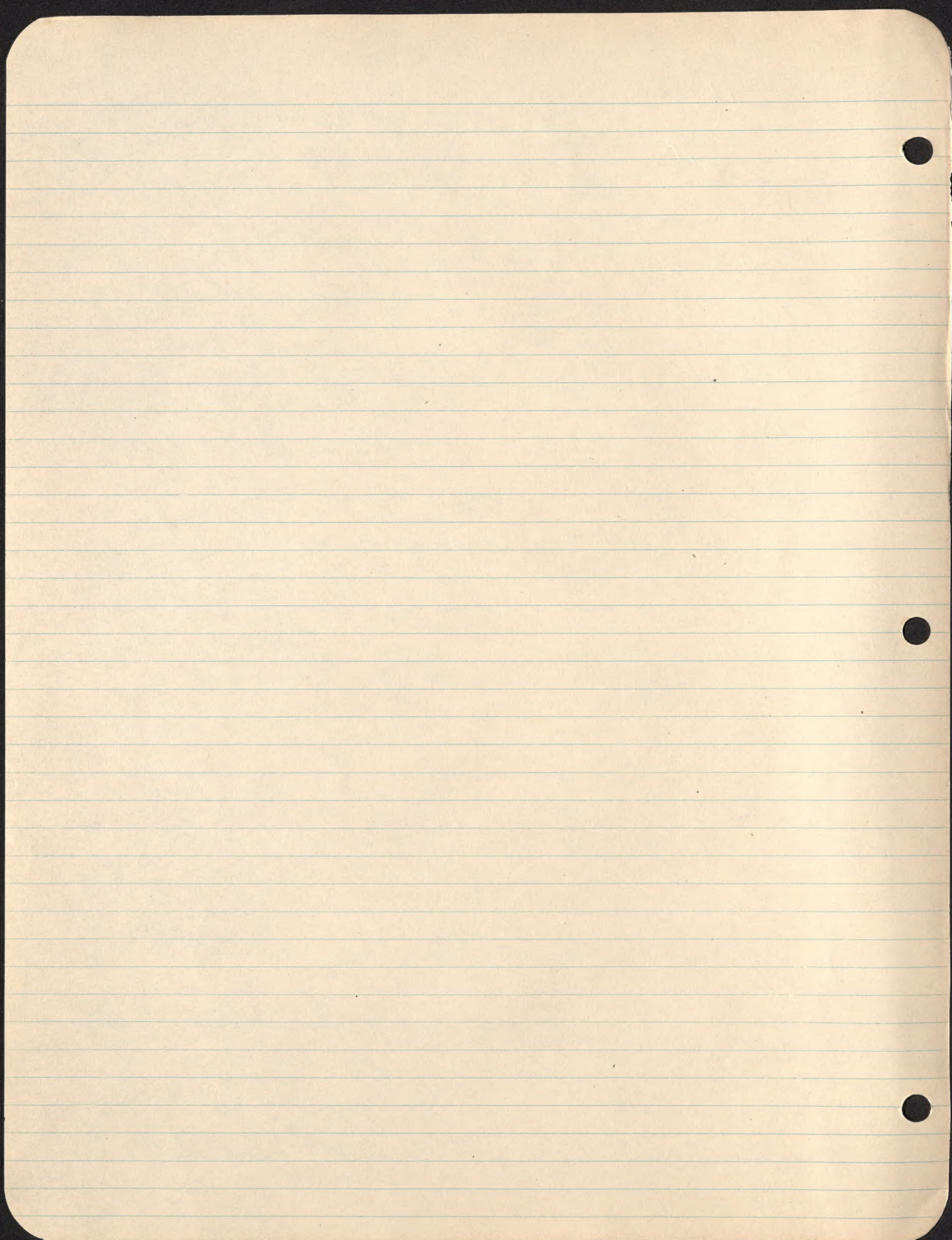
Wallum scrub. 27

Savanna forest 28

Open grassland of Maru Point 30

Mangroves 32

Freshwater aquatics 32.



Newcastle BayRainforest

Developed on land which has not been invaded by dunes advancing from the sea shore.

Canopy trees:18798. *Acacia*.

C. along beach in thin coastal RF. at Lomond: up to 15 m.
fls. yellow (Bickney North)

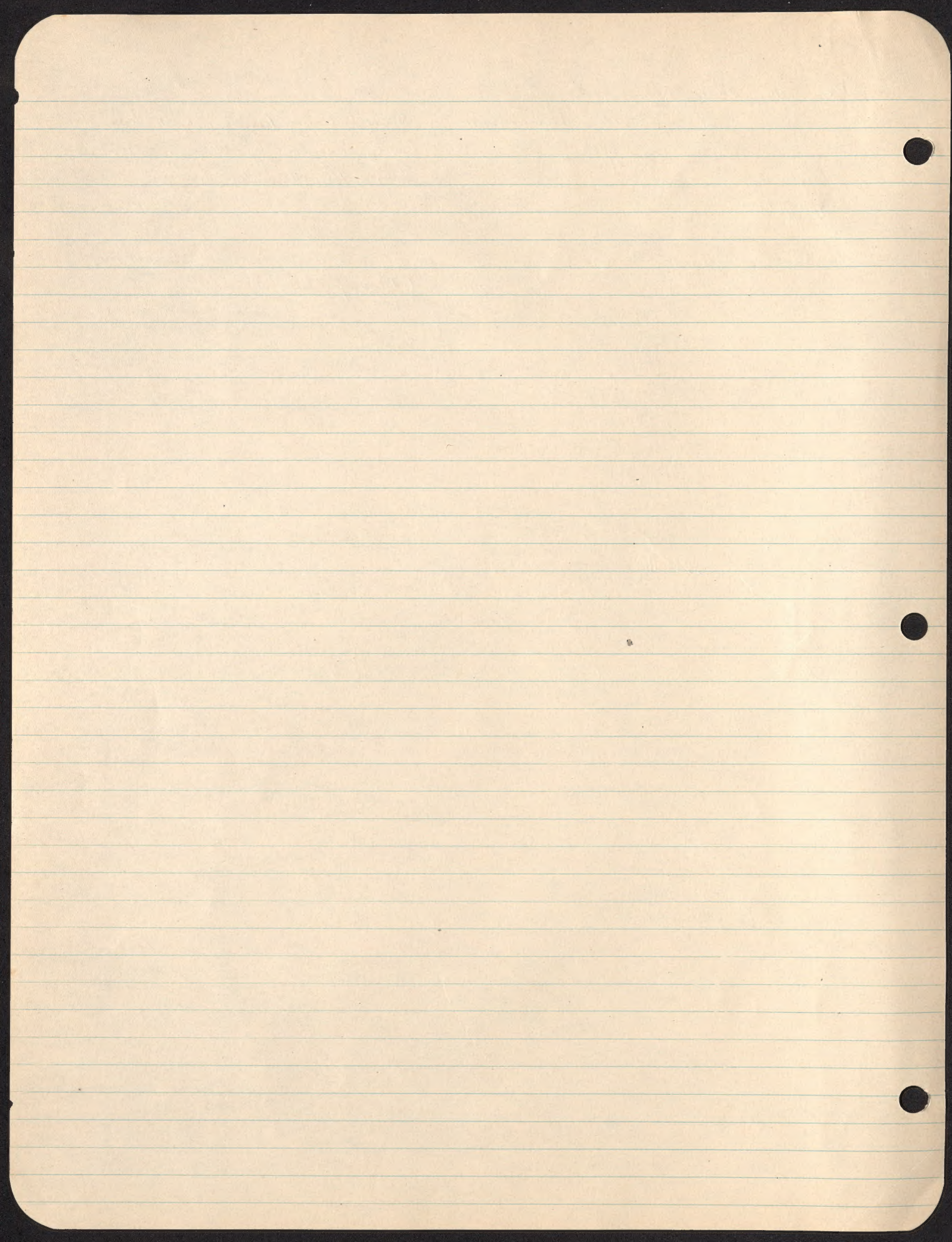
Other trees:18715. *Pandanus* sp.22. *Palm*.50. *Pittosporum*86. *Palm*.99. *Psychotria*O-TURU

A. locally behind dunes. 6-7 m. Much-branched. ^{MAHA} see notes.
A. near a stream " " up to 15 m. clumps; slender. ^{MAHA} fls. only.
also C. Lockenbie

F. 15 m. x 10 m. Wood wh. fragrant; Pale yell. fragrant fls.

{ O. on slopes of stream. 10-12 m. Stem 1. Leaves ^{irregularly} lanceolate. fls. only. OTANYA
Lockenbie also

I in poor forest at Lomond: 6-8 m fl. white. fls. ?



Newcastle Bay

Rain-forest

Woody undergrowth:

Herbaceous undergrowth:

18774. Fern

Growing in outer edge. 30-50 cm.

Climbers

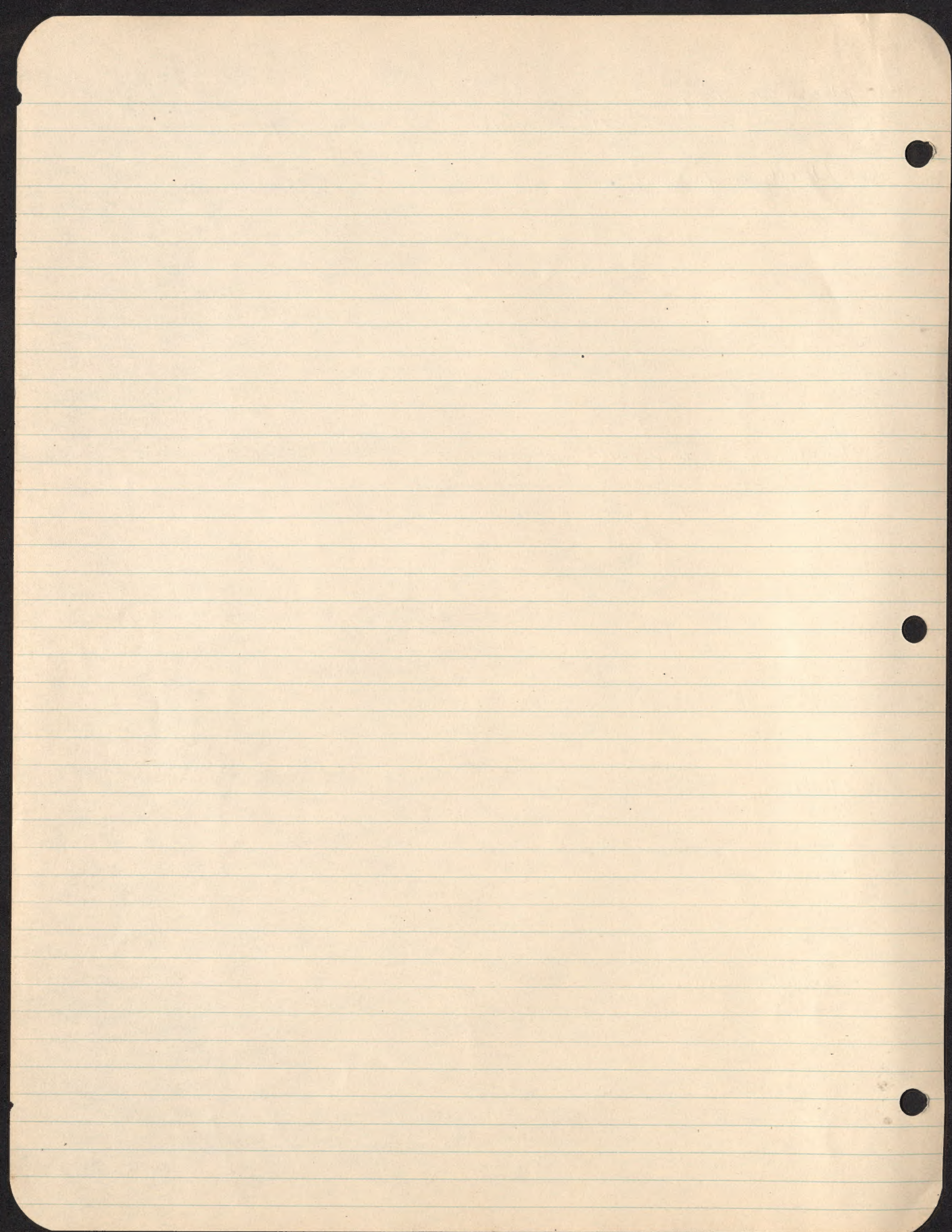
Epiphytes & parasites

18788. Fungus.

On a rotten log.

18806.

Rotting wood on ground.

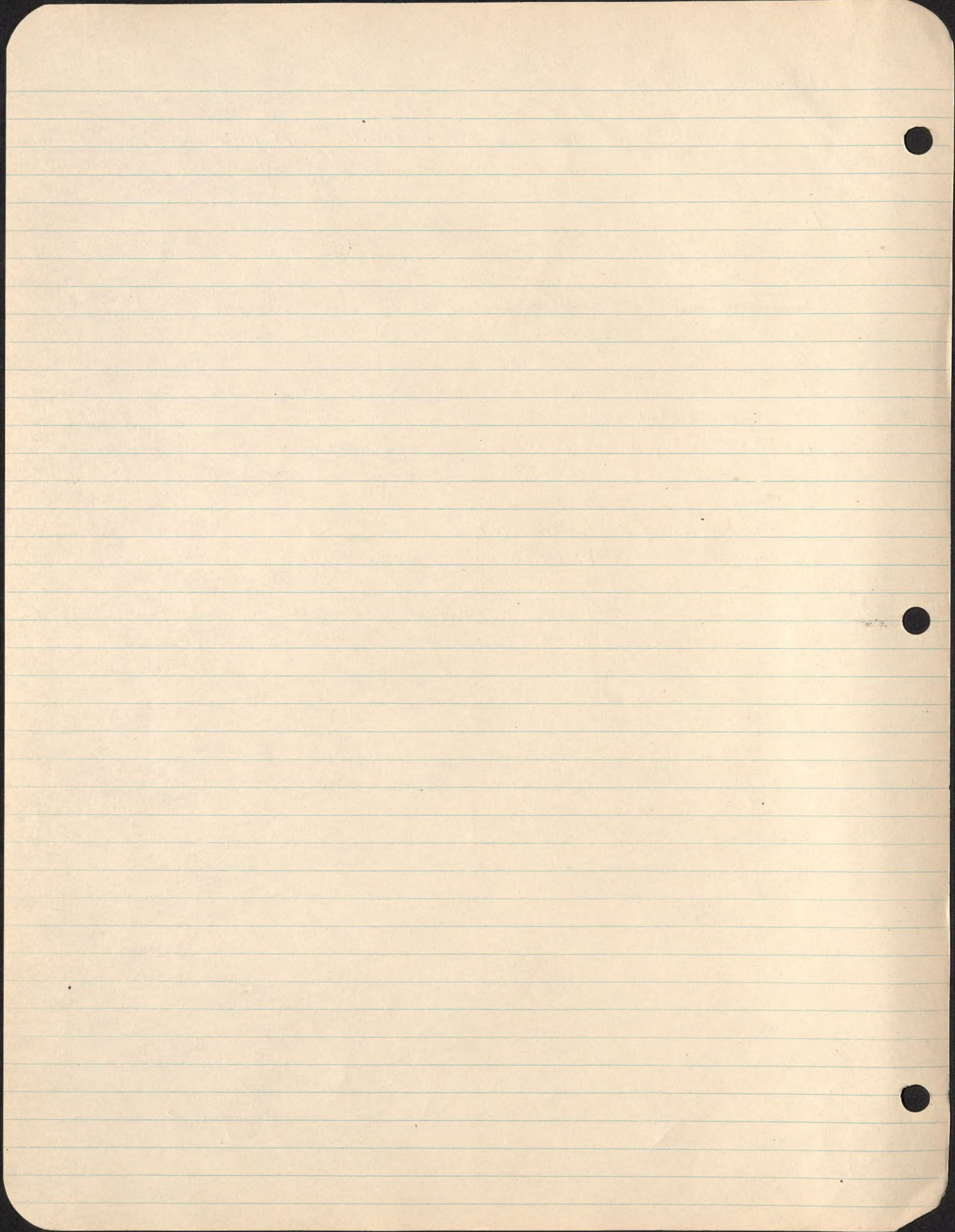


Newcastle Bay

Sand dune scrub of coast. A mixture of rainforest
and "Black Walnut" elements.

Trees:

18654. *Terminalia* C. 5-6m.; fls. cream; green. purple-black fls eaten by black. INTIA
 61. *Rub.* Edge of a pool. 8m. fls. red, fleshy.
~~64. *Melaleuca* off. *M. gymnocarpa*. A sand-stabilizing sh.~~
 65. ♀ Tree or shrub 2-4m. Sparsely lobed.
 66. ♂ = 18665.
 67. *Rub.* C. tree or shrub 4-5m. fls. black, fleshy, petalobed. stabilizing shrub on young dunes.
 68. *Aboronychia*? *infr. forat* C. 6-8m. fls. gr.; fls. unisexual.
 73. *Melaleuca angustifolia* off. *M. gymnocarpa*. A 6-8m, brown, flat spreading; pale br. thin / fleshy bark. ALUTHA. = 18664. fls. cream.
 79. *Erriusa glauca*. A. tree or shrub. 2-5m. leaves grey-gr.; fls. cream. WA-LA
 80. *Petalostigma* P. but really a shrub.
 93. *Rociera* VA on same Pt. 2-5m.; frag. yell. fls.; bark rough br.
~~18715. *Pandanus*~~
 18718. *Rociera* P. esp. on edges: up to 6m.; bark rough bark. fls. yell. LUPARRA
 79. *Parinari* *narda*. A. shrub or tree 2-6m. fls. ? fls. unisexual. O-LARI
 80. *Phyllanthus* F. 4-6m. fls. wh. fls. orange. Leaves convex, greyish below.

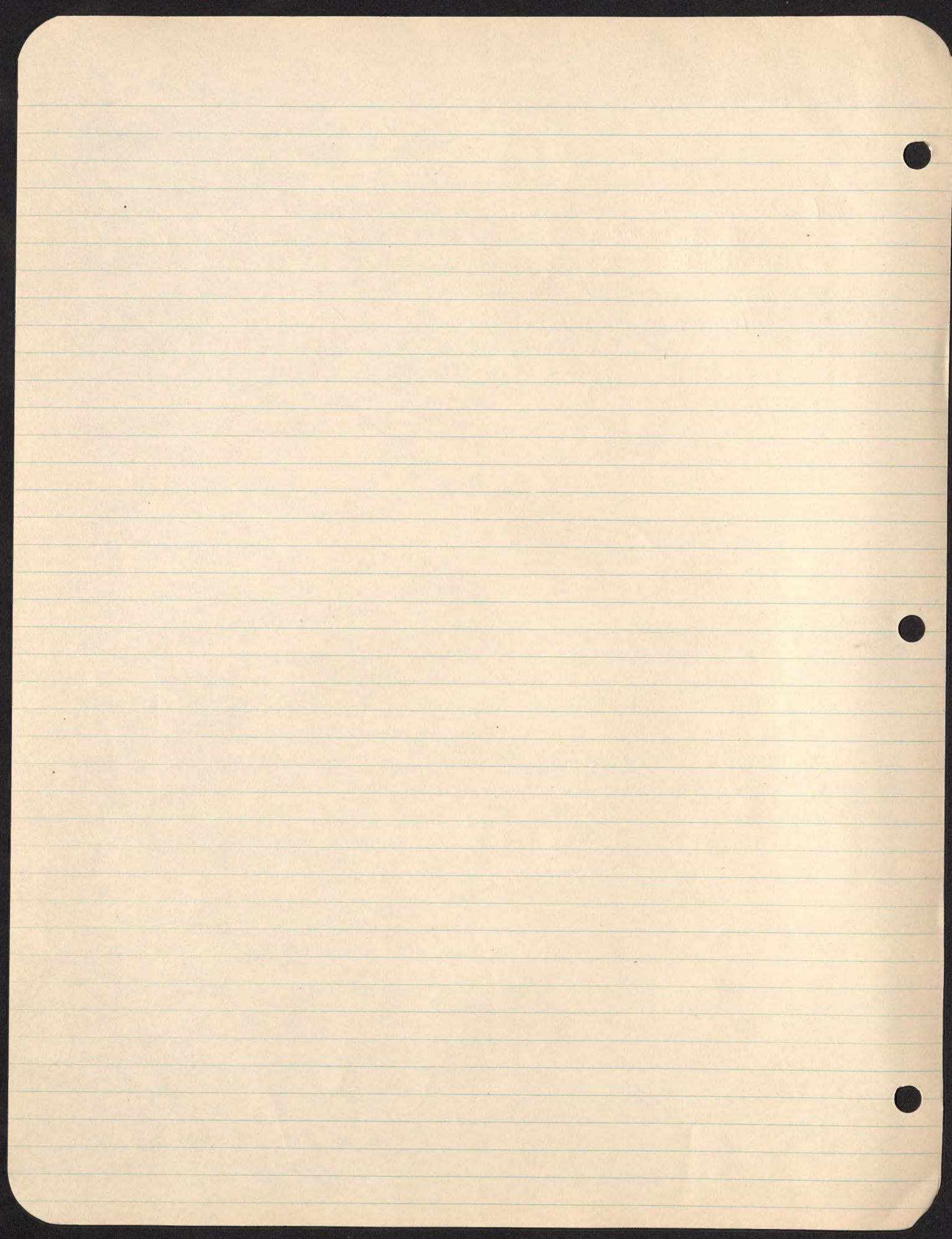


Newcastle BaySand dune scrub of coastShrubs:

1864. *Mastaleuca* ^{angustifolia} aff. *gymnophocarpa*. P. sand-stabilizing fl. 1-2 m. Fls. cream. ALUTHA
 74. Rub. *Tristema* ^{benkita} 2-5 (sometimes sub-arboreous?); aromatic. Fls. wh.; fls. 5 angled, obdistant.
 77. *Mel.* ^{gymnophocarpa} var. P. sand-stabilizing fl. 50-150 cm. Fls. pr. - wh.
 80. *Petalostigma* P. 1-3 m. fls. only.
 81. Rub. (*Morinda reticulata*). O. in shrubbery. ± 50 cm. Comp. wh. bracts; fls. cream. Fls. young.
 82. Rub. C. in low scrub. ± 1 m. Black fleshy fls. = 1867. LUNISAN
 18720. *Solanum* R.P. 1.5 m. Fls. lavender. Fls. red, ca. 15 mm. dia.
 23. *Phodanthera macrocarpa* O. in low scrub; ± 1.5 m. Fls. wh. Lockbri also.
 24. *Mikstroemia* F tree or shrub 2-3 m. Fls. orange.
 83. *Papanea* O. 2-3 m. Fls. wh. Fls. purple-black.

Herbs:

18660. *Cy.* Tufted in scrub. ca. 30 cm.
 62. *Schizaea* O. in scrub (C. on savannas).
 69. *Cy.* S. in shade; spikes white.
 71. *Decand.* C. in shade & forming thin ground cover locally. Fls. purple.
 76. *Taraxac.* In shrubbery: ascending, ^{10 cm} forming small mats. Fls. cream.
 82. *Cyperus* C. locally in shade. 50-60 cm. stems usually red.
 18712. *Gram.* 60 cm.
 13 *Panicum* C. locally in low scrub. 15-20 cm.
 19 *Gram.* Erag. in small colonies in shade. ± 50 cm.



Newcastle BaySand dune scrub of coastClimbers18657. *Apoc.**C. subcaudens* shrub 2-4 m. Fls. yellow; fr. unguis.18717. *Mimif.*

Low scrub, 1 m. Ripe fls. orange.

Epiphytes & Parasites18657. *Moss*. Lower trunks of trees (also rotting bark). Like grey sp. on Florida cabbage palms.59. *Cyclophorus*.*C. in* scrub. Throats creeping; leaves thick, fleshy.72. *Toranthus*

Small sp. ± 40 cm. Fls. red & yellow.

88.

"

On low trees; 50 cm. Branches sub-pendent; fls. blackish purple & green.

18721. *Dendrob. cf. bigibbum* *unc.* Very close to ground; 30-60 cm. Fls. purple, odorless.85. *Myrmecodia*.Fls. purplish-ub. *C. in* Lockenbie sav-forests.Ponds & streams

WOREGA

18648. *Gehnia*.neg. wet sandy edges; up to 5 m.; stems branched, ascending; ^{red}ms.18716. *Blangas malayana*. Densely prostratus 2-2.5 m. on open banks stream near beach.Recess

18856.

Rotting bark.

57

"

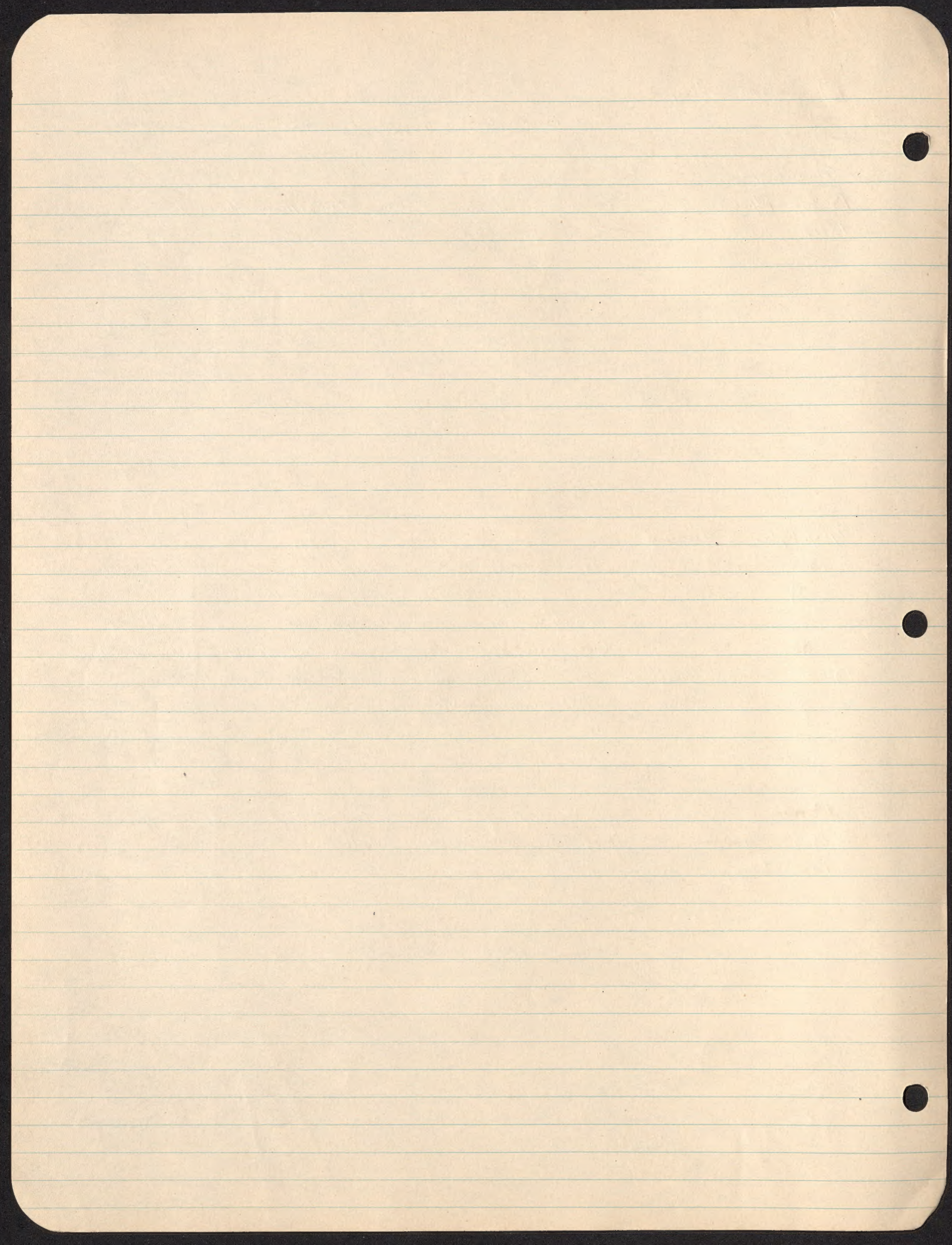
- & lower tree trunks. Like grey sp. on Florida cabbage palms.

58

Rotten logs.

70.

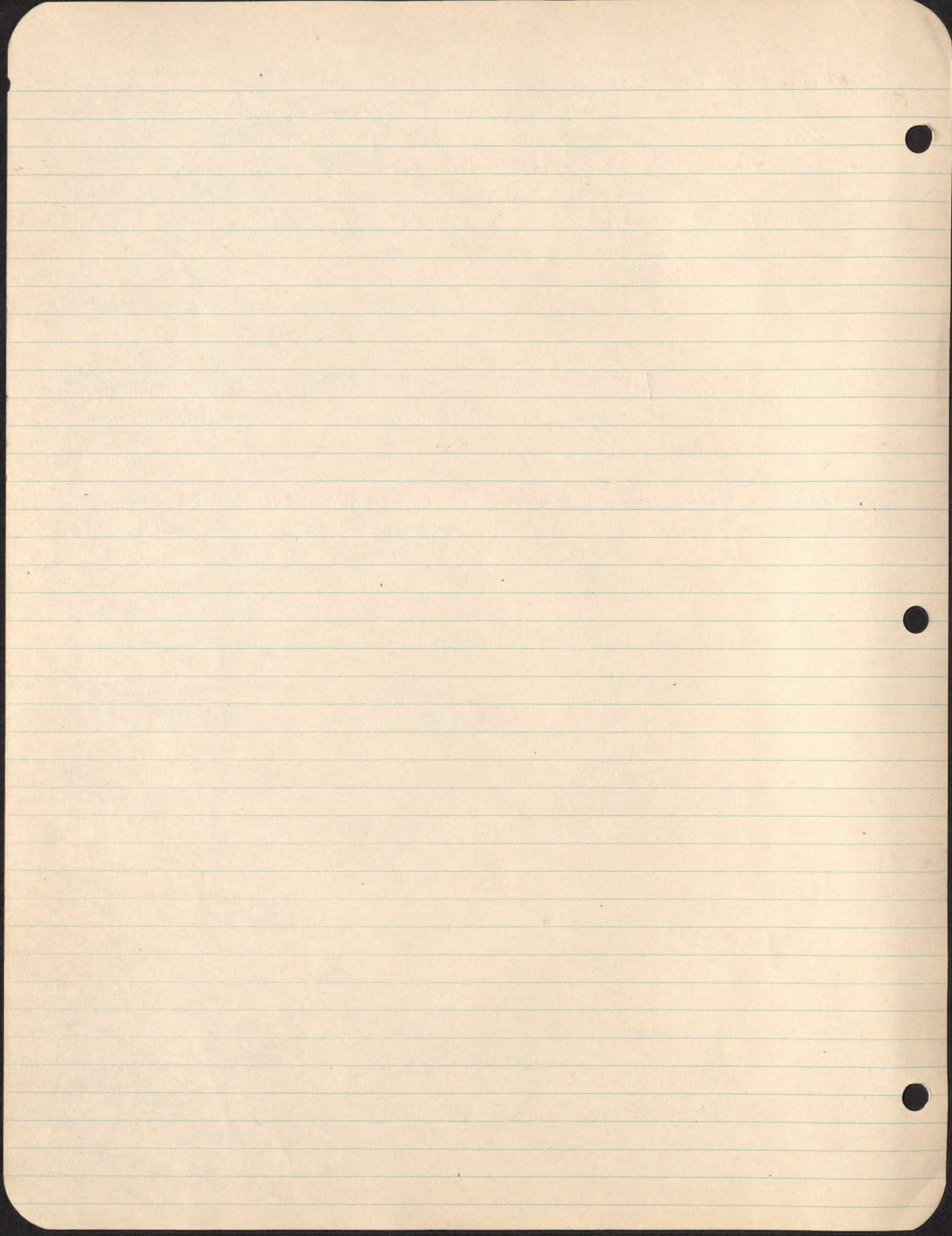
Dead bark of trees.



Newcastle BayLittoral forestWind-clipped low forest on seaward
side of dunes.18675. *Scaevola*

Tree 8m. Scabrous leaves; fl. unisexual, reddish.

Casiphyllum inophyllum. Showering trees at camp.18787. *Pandanus**modestulus*C. & camp. on coastal dunes. 5-8m. Freely & openly branched. Leaves
glaucous. Fl. heads 15x12mm, 3-angled. ANKANTUKHA18792. *Pandanus**spinalis*C. on rocky coastline & beside small freshwater streams in
coastal sand dune area. 5-8m. Thin branched, ramified on
short progs. Fl. head ca. 22x18mm.



Newcastle Bay:Black tree scrub.Patches in savanna forest back from ~~coast~~ coast.Trees:18754. *Leptospermum Fabricia*. Thinf. D. 3-10 m. Fl. mil. green. Bark dark br., thick, hard, fibrous, deeply fissured. ANTARRA66. *Gyocarpus*

F. 5-6 m. Fl. green. (Lvs. 10 x 25 cm.; fl. green of 18756)

88. *Santal.*

Edges of scrub. 3 m. Leaves glauc., fleshy.

Shrubs:18768. *Hibbertia*

A. about edges. 1-1.5 m. Leaves br.-fleshy below. Fl. yellow

69. *Mikrocnema*

A. - - - 1-3 m. Fl. wh. Fl. ?

70. *Epacrid.*

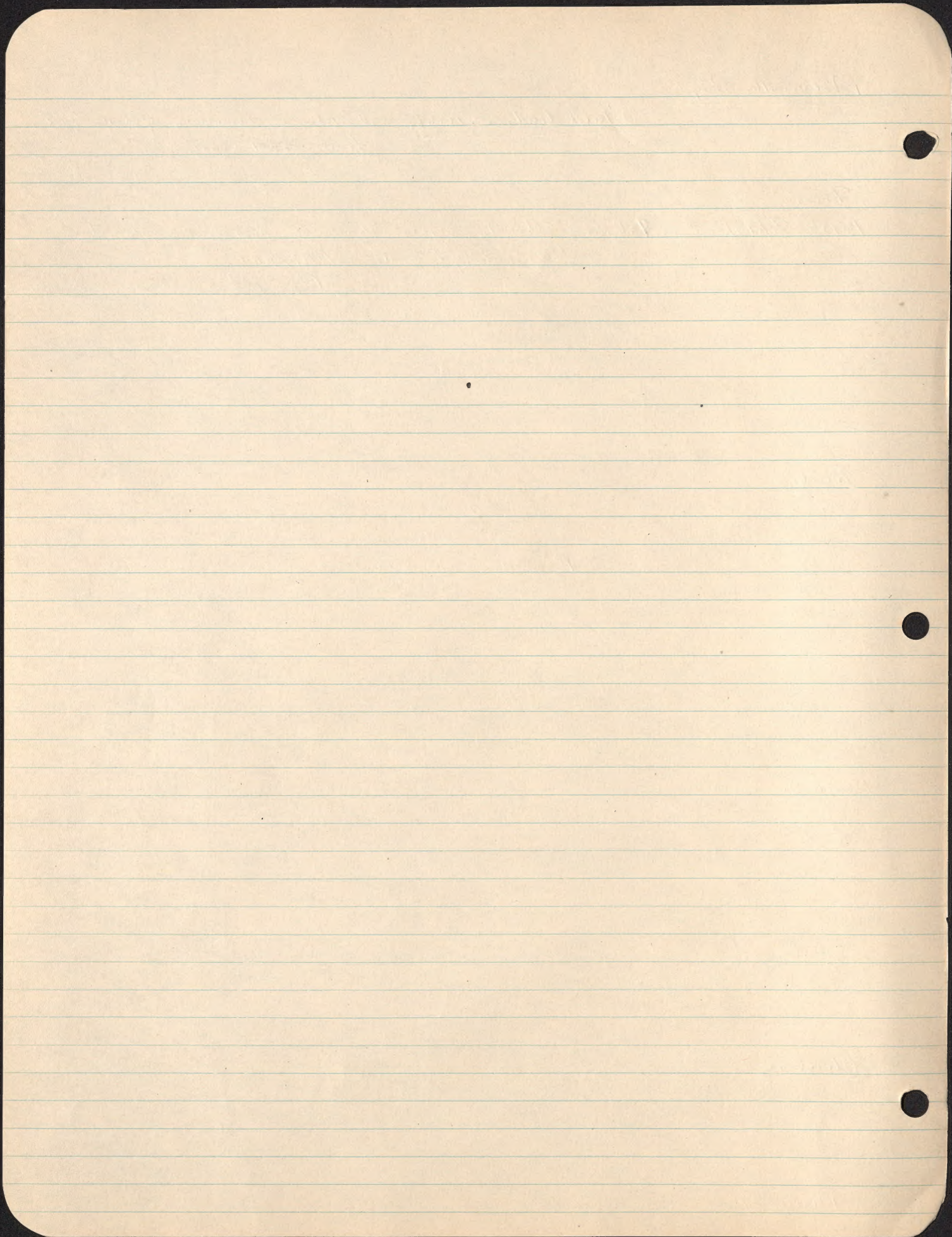
A. in edges. Tree or shrub to 5 m. Fl. wh. (small leaved sp.)

72. *Dodonaea*C. - - 1.5-2 m. Fl. orange. Fl. ~~very~~ very young.Herbs:Climbers:18771. *Poya*

C. 2-3 m. Fragrant wh. fl.; leaves stiff, greyish below

More 18762.

On living bank.



Newcastle BayWattle scrub

On clay to half-marshy grey sandy soil in a depression behind the beach. ("heathy hollow").

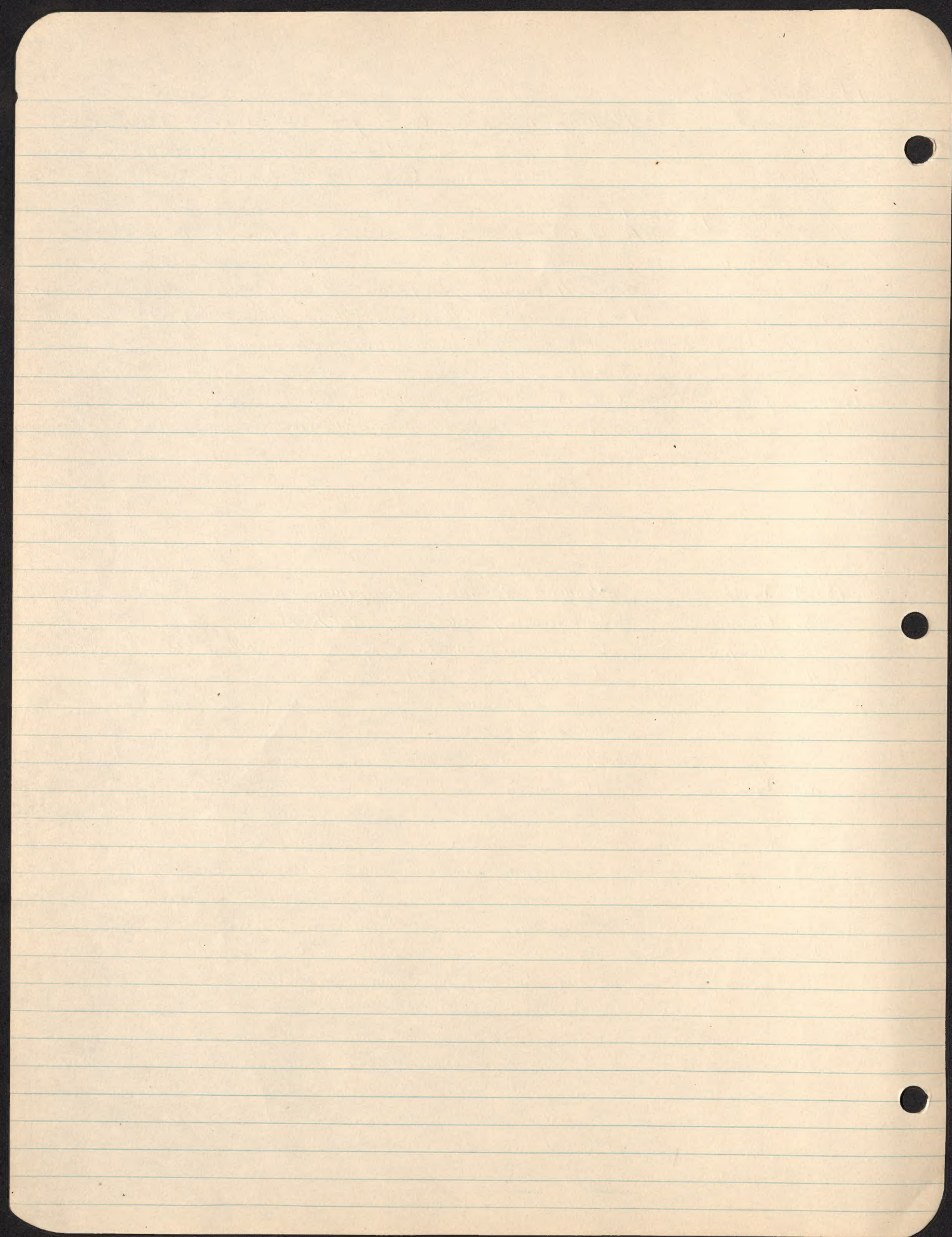
Shrubs

18649. ^{Agave} ~~Agave~~ ^{griseophata} ~~griseophata~~ A. up to 1 m; low bushy habit; cream fls. in globose heads.
50. *Fuchsia* A. under 1 m; fls. pink to deep red.
51. *Metaleuca* WINT. A. (moist ground) \pm 1 m. Fl. only; leaves citr.-scented; compact; bushy.
52. *Euphorbia* P. 1 m. or more. Wh. fls., unisexual. (= larger leaved sp. of Jolly Bk). ^{also} dense scrub.
53. *Symphoricarpos* P. 30-80 cm; much branched, bushy; fls. yellow.
53. *Dodonaea* ? P. \pm 1 m. Fls. green.
18727. *Myrsine* *minabilis* C. to 1 m. on marshy ground the most. ~~XX~~ ONTARIO.
38. *Haloragis* Scrambling on boggy ground amongst shrubs; ca. 1 m.

Herbs:18708. *Xyris*

Stalks 30-40 cm. Fls. yellow

9. *Commel.* C. ascending up to 30 cm. Fls. purple.
10. *Comm.* C. branched or simple; greyish. Fls. yellow. 15-30 cm high
11. C. subprostrate. Fls. wh.
29. *Bromus* C. wet ground. 10-30 cm. Fls. pink.
30. *Gooden.* ? Sp. 25-20 cm. Fls. wh. *Lockhartii* also.
31. *Lil.* Sp. 20-30 cm. Fls. wh., anthers dk. br.
32. *Xyris* C. marshy ground. 30 cm. Fls. yellow.
33. *Utricularia* C. " " 10-20 cm. Fls. yell.
34. *Bromus* C. " " 20 cm. Leaves red. Fls. wh.
35. *Sorgh.* C. boggy ground; 20-30 cm, up to 1 m. Fls. violet & red.
36. *Utricularia* C. " " 15-40 cm. Fls. purple.
37. " *Carex* boggy stream. 10-12 cm. Fls. greenish-wh.
40. *Lygum.* C. on open ground. Prostrate. Fls. pink.
41. *Gyp.* *Trig.* open boggy edges stream. ca. 50 cm.
42. " A. moist open hollow. 30-40 cm.
43. " *Trig. locally* " " 20-30 cm.
44. C. locally on moist sand. Much spreading; leaves succulent. Fls. pink
45. *Polygala* Sp. wet open hollow. 10-20 cm. Fls. pink. Also *Lockhartii*.
46. " Local " " Fls. blue, hidden under leaves.
47. *Gyp.* C. wet sandy edges stream. \pm 10 cm.
48. *Cruciferae* Sp. in open hollow. \pm 30 cm. Fls. yellow, looks odd.
49. *Trifolium* Local wet sandy banks stream: 10-15 cm. grey-gr.



Newcastle Bay

Savanna-forest. On sandy flats & low ridges behind the rainforest & dune shrubs of the coast.

Trees:1875h. *Tantulum*

Eref. in small groups. 5-6m. Fls. cream. Hard rough bark. Leaves glauc. below. Sap wood fragrant.

67. *Eucalyptus*

Woodward. ^{AD-ORA} up to 20m. (chiefly D. Fls. cream. Bark of trunk & branches scaly brown.

79. *Parinarium nundu*

C. (also as shrub or small tree in dune scrub) O-LPRL.

95. *Mit. symphyocarpa*.

C. on sandy shore of L. Borom. 4-6m. Deeping low tree; fls. very dark green. Fr. yellow & reddish-orange.

1880A. *Tapei*.

WA-LP. F. glaucous in sandy Woodwood forest. Dark barrel tree 15-18m. Bark rough, blackish. Young fls. only. Leaves eaten by cattle.

Shrubs:18751. *Lig.*

A. sandy ground. ^{60-80m.} Many spreading branches. Fls. purple-pink.

55. *Hibiscus*.

O. " " 60-100cm. Fls. wh., throat dark red-purple.

65. *Quinga*

A. " " 1.5-2m. Fls. deep rose-pink. Fl. immature

71. *Tantul*.

R. shrub or tree 4m. Fls. yellow.

93. *Euph.*

A. in SF adjacent to R.F. D. pioneer in conversion of SF to R.F.

C. also *Lockhartia*. 2-3m. Fls. yellowish.

97. *Euph.*

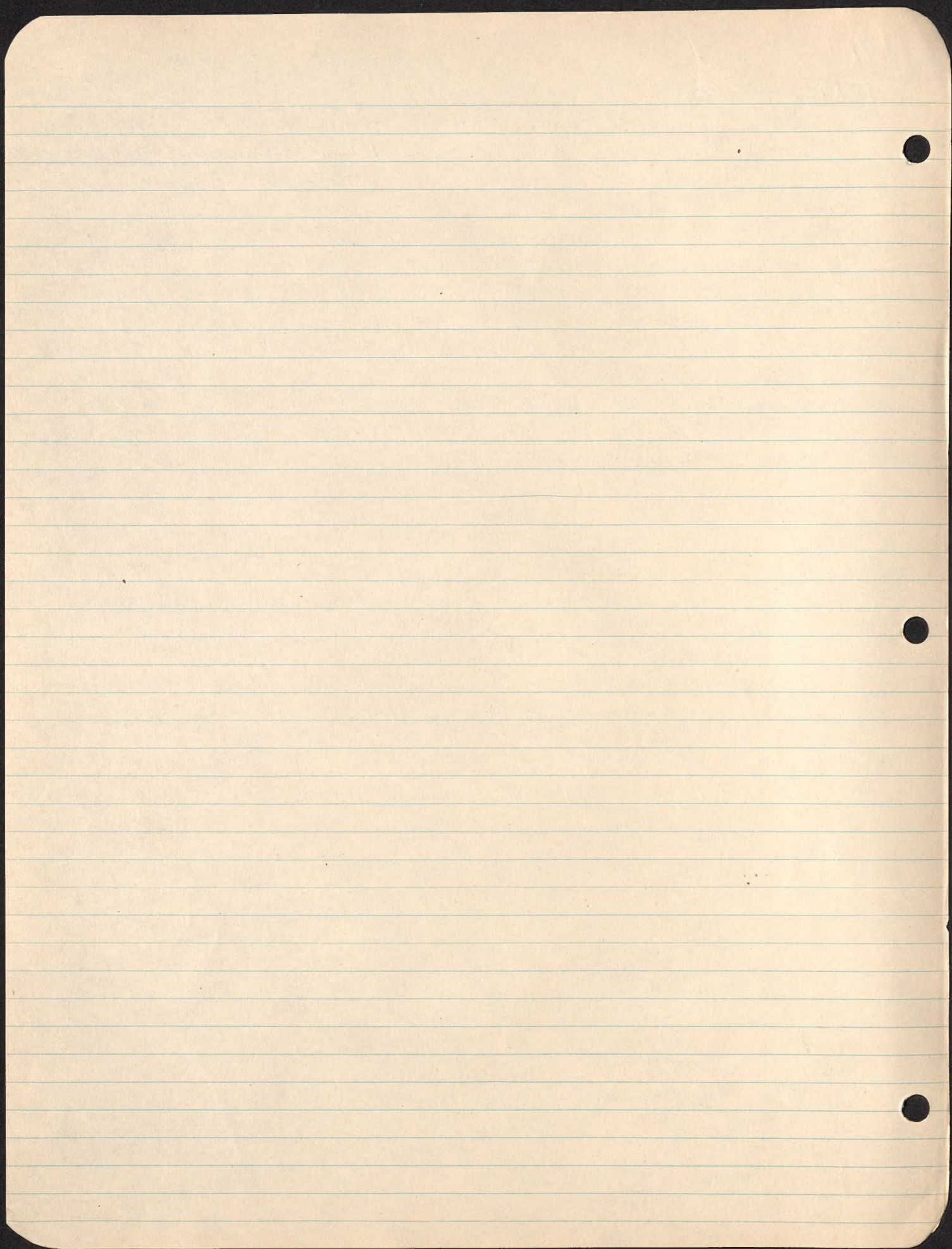
A. pioneer in conversion SF to R.F. 5-6m. Fls. yellow.

18805. *Strobilium*

VA in SF adjacent to R.F. Tree or shrub 2-5m. Fls. yellowish. (Fl: gr.)

Grasses:18801. *Acacia*.

C. in open shrublands on Fly Point. Shrub 60-80cm. Fls. yellow. Numerous upright branches.

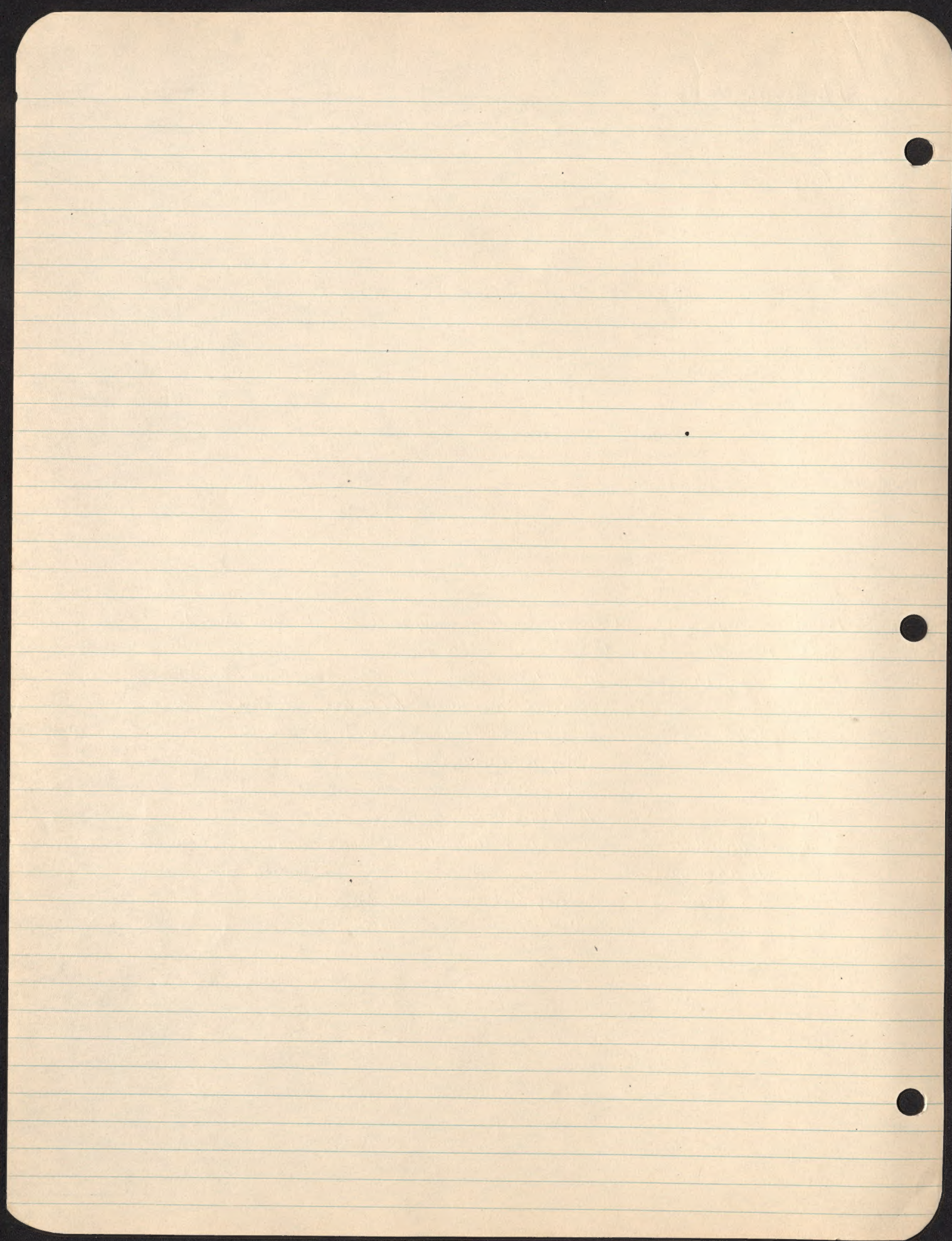


Newcastle BaySavanna-forestLedgesHerbs:

18662. *Schizasa*. C. locally on loose sandy soil. (O. in dense scrub).
 63. *Scand.* O. 40-50 cm. Fls. wh.
 18723. *Caryoph.* O. on loose sandy soil. 25-40 cm. Fls. whitish.
 56. *Lab.* O. branches low spreading to 1 m. long. Fls. deep rose purple.
 57. *Phyllanthus* C. Woodward forest. 30-50 cm. prostrate, ± fleshy. Fls. wh.
 58. " " Grey. in small groups. ± 30 cm.
 59. " " Sp. ca. 30 cm. Fls. cream.
 60. *Lep.* Trailing & twining in grass. Fls. yellow.
 61. *Phyllanthus* C. locally in Woodward forest. 40-60 cm; leaves very glauc. below. Fls. wh.
 62. *Strobilanthus* C. " " 40-50 cm. Fls. pale yellow.
 63. *Sesmodium* Woody herb 30 cm. Fls. dark pink.
 24. *Gooden.* Moist sandy soil in Gutter Jt. 5 cm. Fls. yellow.

Epiphytes & Parasites

18720. *Loranthus*. On trees. 1 m. Fls. red & yellow. Fl: black.



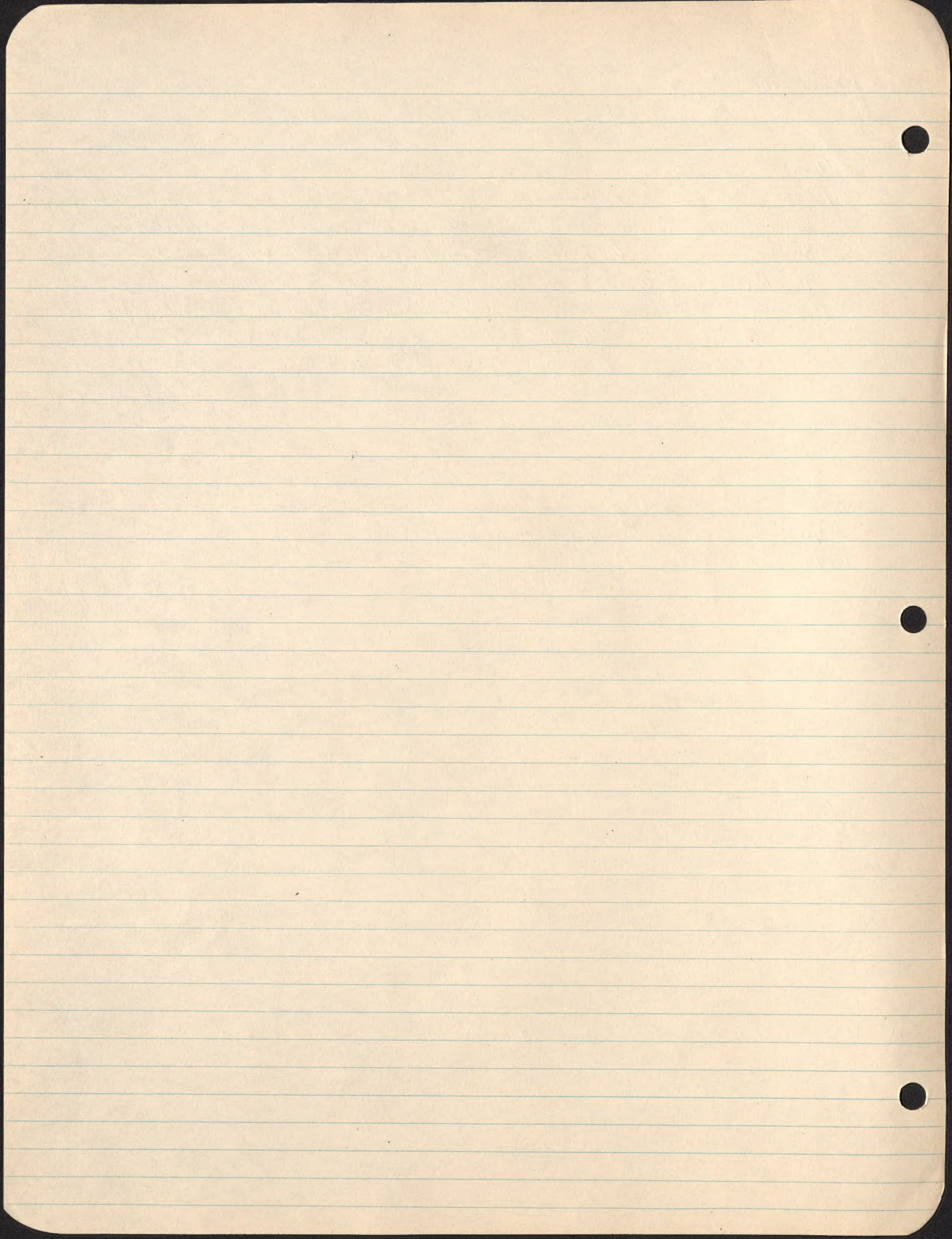
Newcastle Bay:Open grassland of Mann Point:Shrubs:

18652. *Epacris*. P. tree a shrub to 6 m. (western side) = larger leaved sp. of today Ok; fls. ^{wh.} ~~cream~~.
 81. *Phorinda reticulata*. O. \pm 50 cm. Sh. wh. (base): cream fls. AILINGA
 85. O. 30-50 cm. Fls. yellow, shrub (aff. *Procumbens*).
 92. *Hebe* cf. *Banksii* A. 40-50 cm. Fls. yellow, shrub.
 18703. *Acacia* cf. *humifusa*. A. subprostrate to prostrate. Mostly shrub. Fls. golden-yellow.
 776. *Phoradendron*. C. prostrate in dense dark green mat. Fls. wh. of 18652.
 77. *Fragaria*. A. prostrate & mat-forming. Fls. deep rose & pale pink. Fr. unripe.

Grasses:

18684. Also covering openings in shrublands. \pm 15 cm.
 90. Principal sp. on patch. 60-80 cm.
 18700. *Poa* cf. *peruviana* P.
 6. C. 50-70 cm.

Sedges:



Newcastle Bay.Open grasslands of Mann Point.

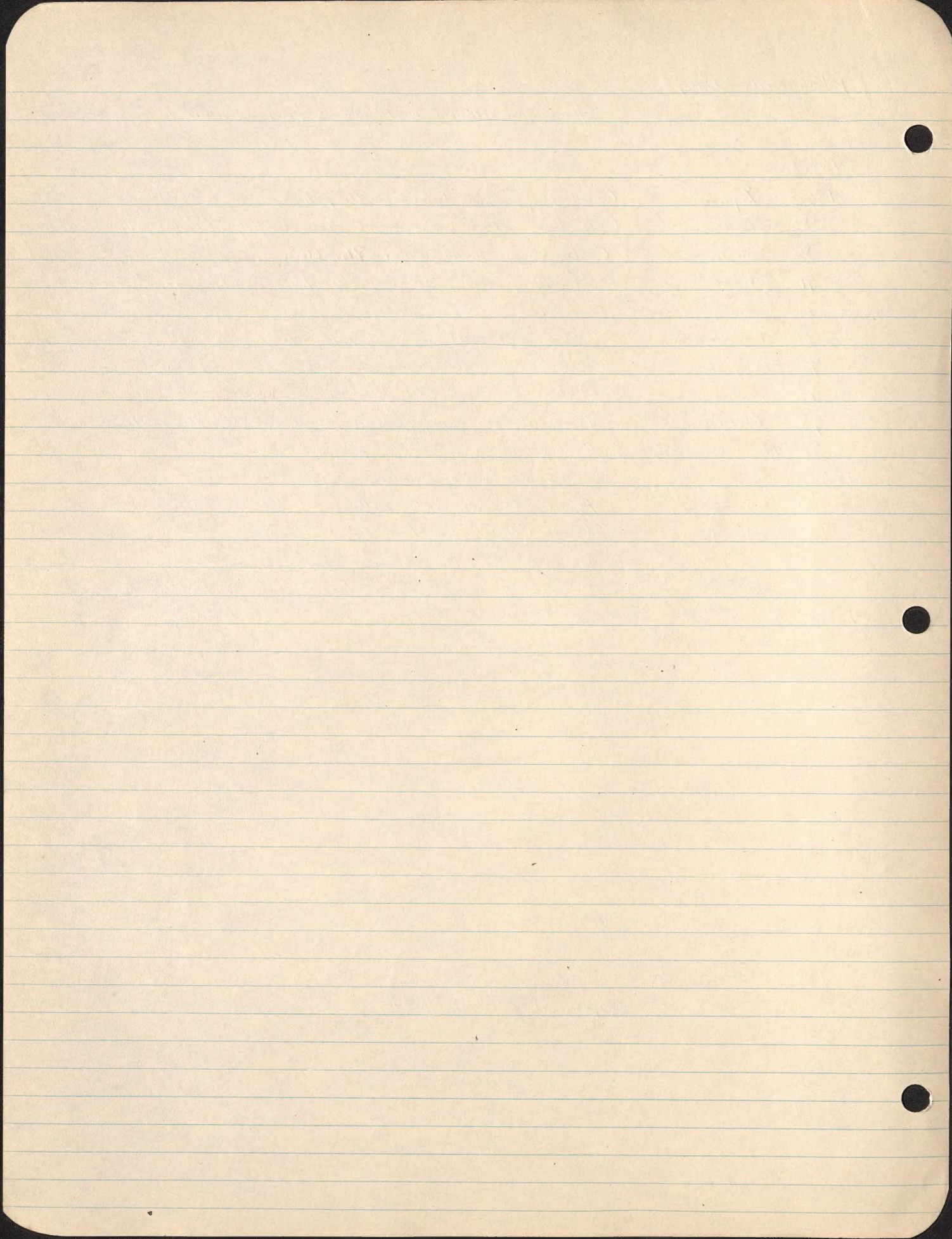
alt. 50 ± 20 m.

Herbs.

18678. *Lepum*. C. on open ^{sandy} ground. trailing. Fls. yellow.
83. *Stacthouisia* C. 15-30 cm. Branches a single; leaves ± fleshy. Fls. gr-yellow AN-YA
86. *Convolv.* C. trailing on sandy ground. Fls. blue
91. *Trini*. C. sandy ground. 20-40 cm. simple or branched; fls. cream
94. *Portul.* P. prostrate. Fls. wh.
95. *Gomphrena* C. 20-30 cm. Branches red; fls. whitish
96. *Convolv.* C. 15-20 cm. Fls. whitish
97. *Ipomoea* O. herb ± 10 cm. Fls. purple. WUNTA
98. *Gleasonia*? O. stiff, spreading few cm. above ground. Fls. yellow.
99. *Amaranth.* O. erect 50-80 cm. Fls. greenish
18701. *Rub.* C. ± 40 cm. weak, sprawling. Fls. cream
2. *Convolv.* E. 10-30 cm. Fls. yellow (Zosteris also)
4. *Convolv.* C. trailing to over 1 m. long. Fls. wh.
5. *Convolv.* C. trailing. Fls. wh. showy.
7. *Ipomoea* O. close to sea. Twisted or heart creeping. Fls. purple, showy
18778. *Helichrysum* Sp. 15-30 cm. Fls. yellow, showy. Leaves ± viscid.

18802. *Sylvestris*.

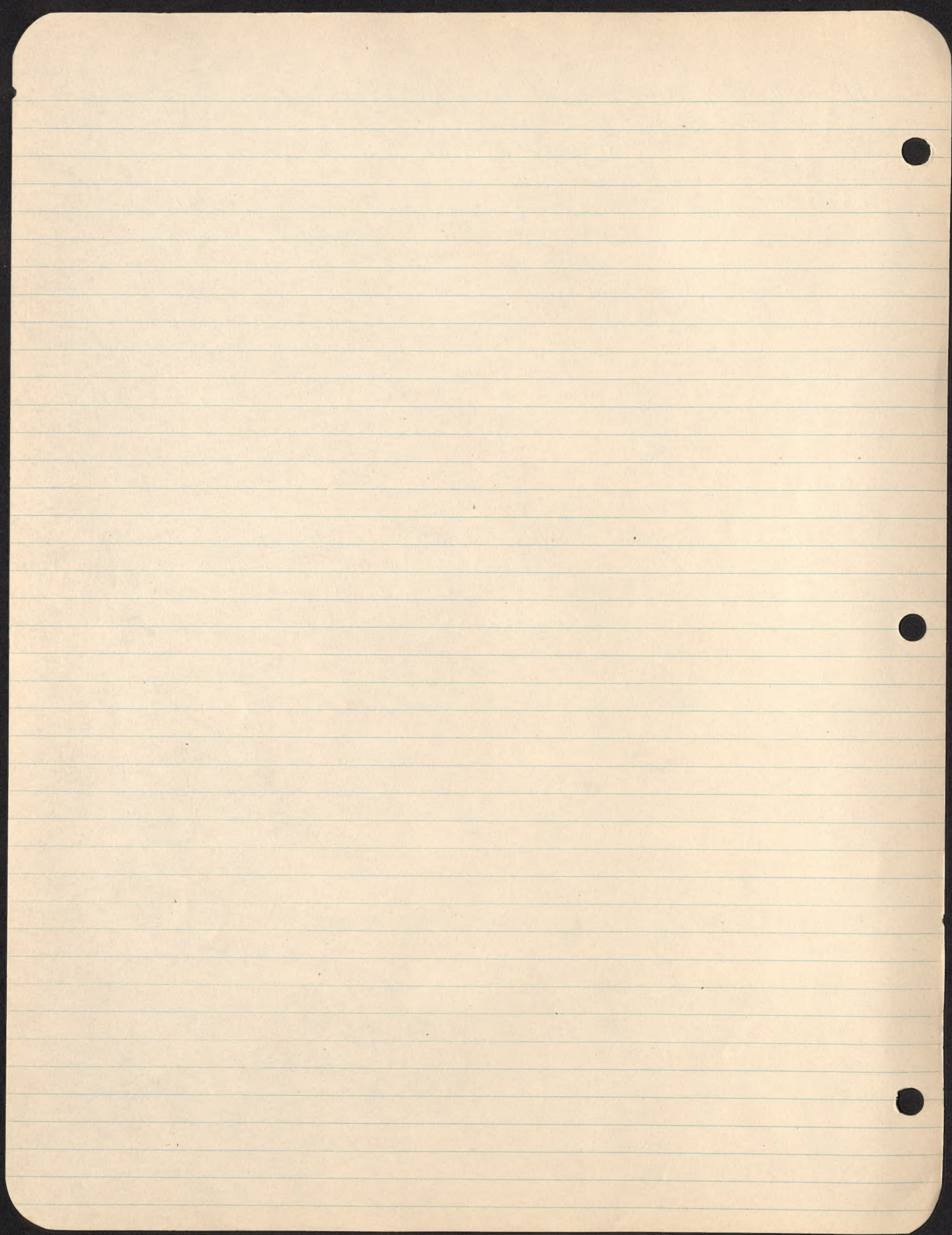
"Townsville Lucerne". Forming dense mats on open ground of Vallaik Pt.



Newcastle BayFreshwater aquatics18738. *Hydrocharis*.

Submerged in a boggy pool between dunes (camp). 20 cm.

Mangroves:18775. *Nipa fruticans*WAT-PAPU. A single mature or nearly mature, but
sterile plant ca. 10 m. tall on muddy bank of a freshwater
stream influenced by tides. Just behind beach; mangroves
Thesaur.



Gardine River, ca. Long 142° 21

Tavanna fonsi

Turkey bush

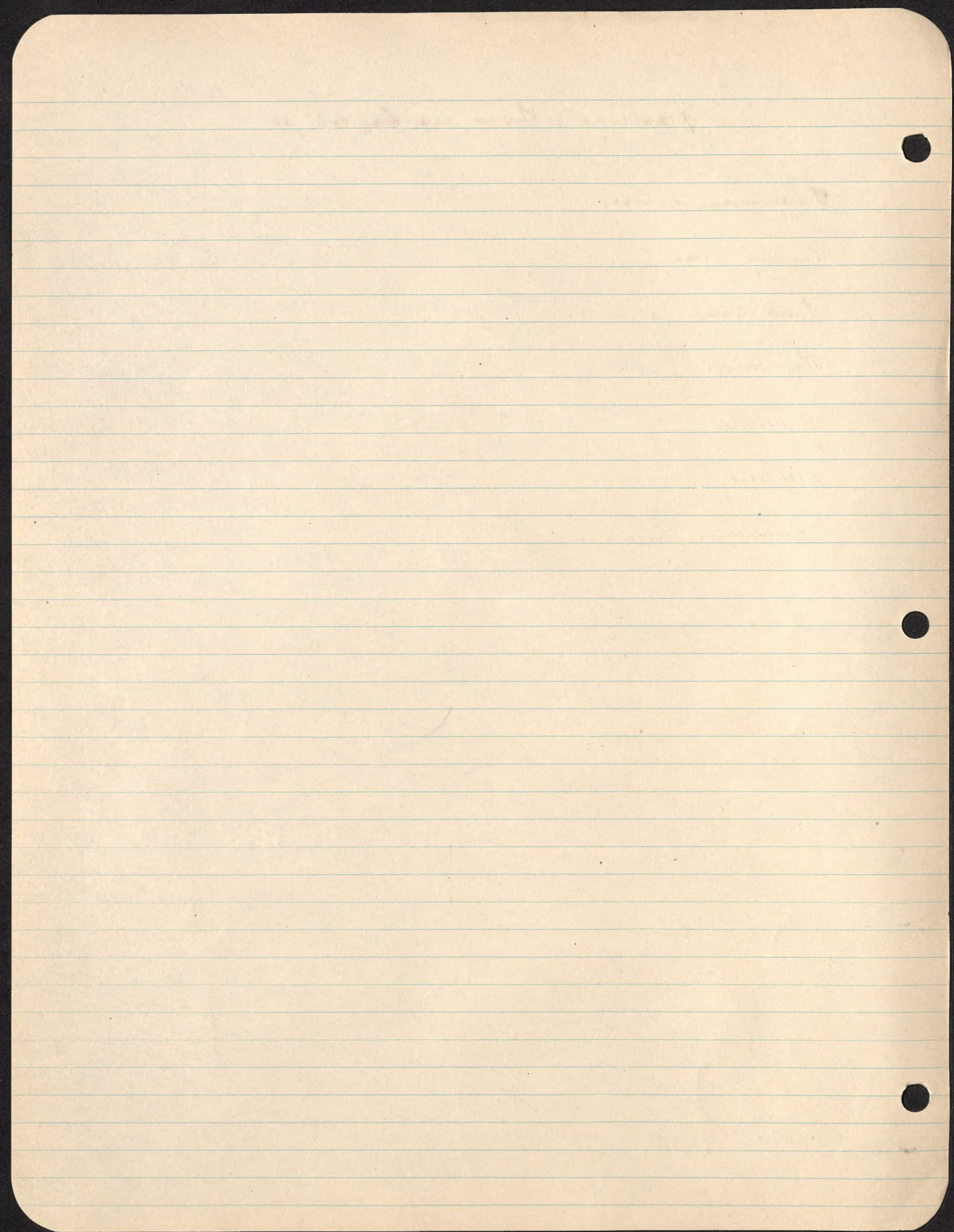
Black water scrub

Riverbanks

Waterholes

Wanders

Tanamera hepon



Gardine River

lateritic ridges
Sandy bottom flats
Sandy flood plains
Low sandy ridges
Wooded forest of sandy riverbanks

Savanna forest

Trees

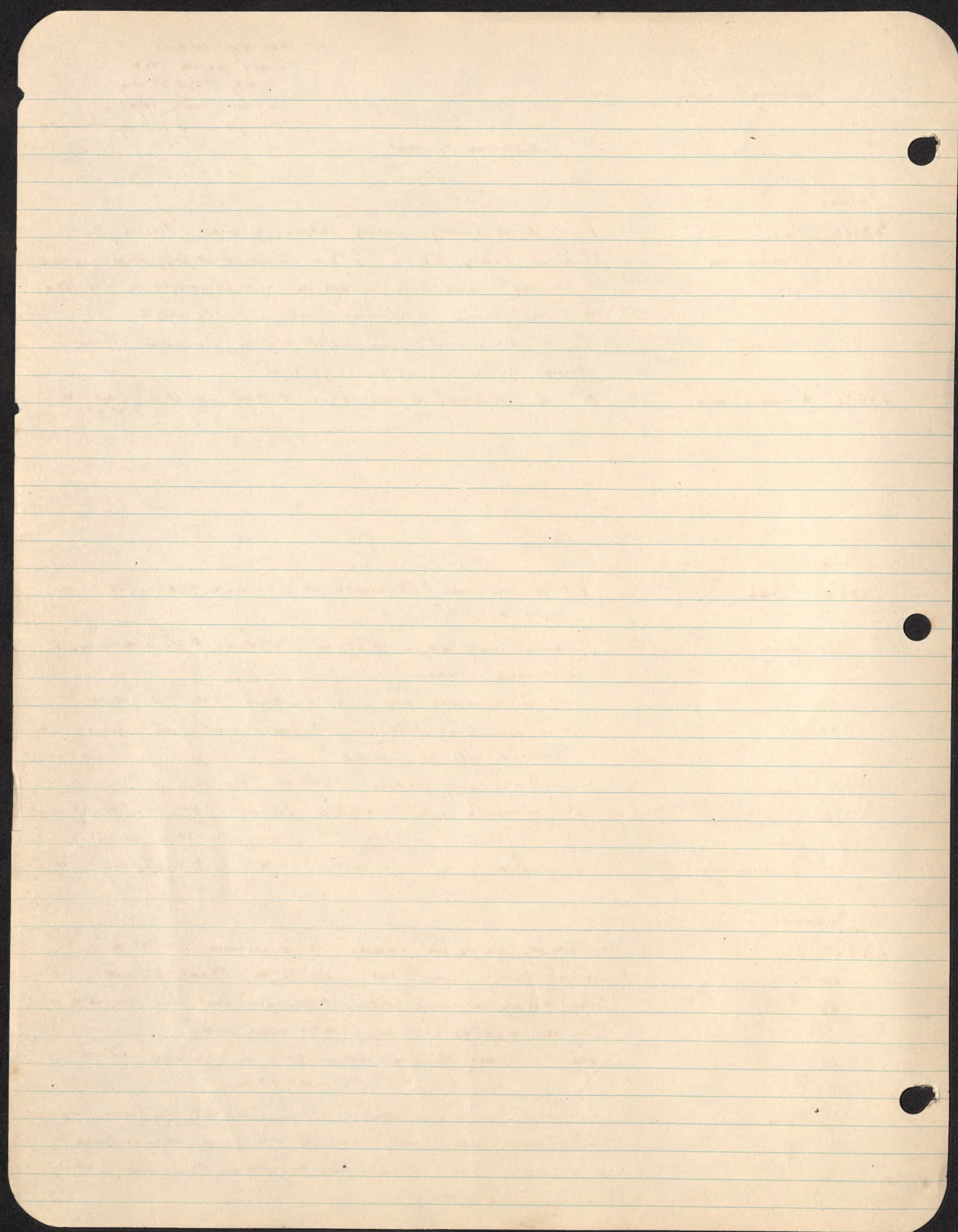
18821. *Rub.* F. in low sandy bottom ridges. ± 10 m. Fls. wh.
25. *Casearia* C. low sandy ridges. 6-8 m. Bark dark grey, rough, fissured.
83. *Euph.*? Forming limited pure stands in wet depressions on river flats.
8-10 m. Sterile. Branches drooping. **ILURRA**
97. *Procris* O. mesquite forest lateritic ridges. 8-10 m. Fls. cream. Leaves
flush green. Bark br. rough bark.
18501. *Xanthosoma* F. with mesquite on fertile ridges. 8-10 m. Fls. yellow. (Large tree
at Lockhart).

Shrubs

18822. *Euph.* VA in mesquite / Wooded st. of lateritic ridges, 16 1.5 m.
Fls. 3 ft.
27. *Rub.* C. low sandy ridges. ± 20 cm. Fls. yellow. Leaves spreading lateri-
cationsella-scand.
69. ? Eup. in mesquite forest of lateritic ridges. 1 m. Fls. cream.
88. ? Local upper sandy flood plains. Numerous stout stems in clumps 1-2 m.
Fls. red. Fls. 1-4 lobed.
91. *Rub.* T. low sandy ridges. 50 cm. Fls. white.
92. ? C. mesquite forest on hard lateritic ridges. 80-100 cm. Bark grey fl.
93. *Euph.* O. " " " 60-80 m. Divisive.
95. *Blodendron* 1 exfol. " " " 1 m. Fls. dark purple. Fls.?

Grasses

18820. Eup. locally on higher sandy flood plains 10-15 cm.
24 P. moist sandy bottom flats 50-70 m. Plant \pm erect.
29 Eup. locally on sandy ridges ± 20 cm. Plant bent over as if to
bury the rigid tips of 15 spikes in the sandy soil.
30 C. sandy mesquite / Wooded ridges. 70-80 cm. Spikes reddish.
31 " " " 40-50 cm.
70. *Panicum*. Eup. moist banks of a billabong. Perhaps 120-150 cm. Culms few, erect.
71. P. in Wooded forest of sandy riverbanks. 1 m. Eri yellowish culms.
72. One of chief grasses of higher sandy flood plains. Wide clumps of many
slender culms. 80-80 cm.



Pardine River

Savanna forest

Grasses cont.

18873.

74.

75. *Panicum*

80.

85.

90.

94. *Brachiaria*

18913.

On of principal spp. on sandy floodplains. 80-100 cm. Numerous sub-^{erect} culms.

Loose sand on river floodbanks. 40-50 cm. Proliferous.

O. in semi-shade " " Ascending.

P. on sandy floodplain. 30-40 cm.

A. wet depressions on river flats. 80-100 cm. Blades of few very culms.

F. " " " 70-80 cm. Few sub-erect culms.

F. mesomeli forest hard laterite ridges 1-1.2 m.

O. sandy banks of a waterhole. 50-70 cm.

Herbs.

18881. *Polygal.*

84. *Stroph.*

85. *Stylidium*

86. *Purmannia*

87. *Toaden?*

18907. *Grossa.*

~~19. *Pteris*~~

19. *Pteris*

20. ?

C. locally on sandy upper floodplain. 30-60 cm. Fls. pale purple.

C. wet laterite flats. 20-30 cm. Fls. violet.

C. " " 5-15 cm. Fls. pink.

S. " " 10-14 cm. Fls. purple, solitary

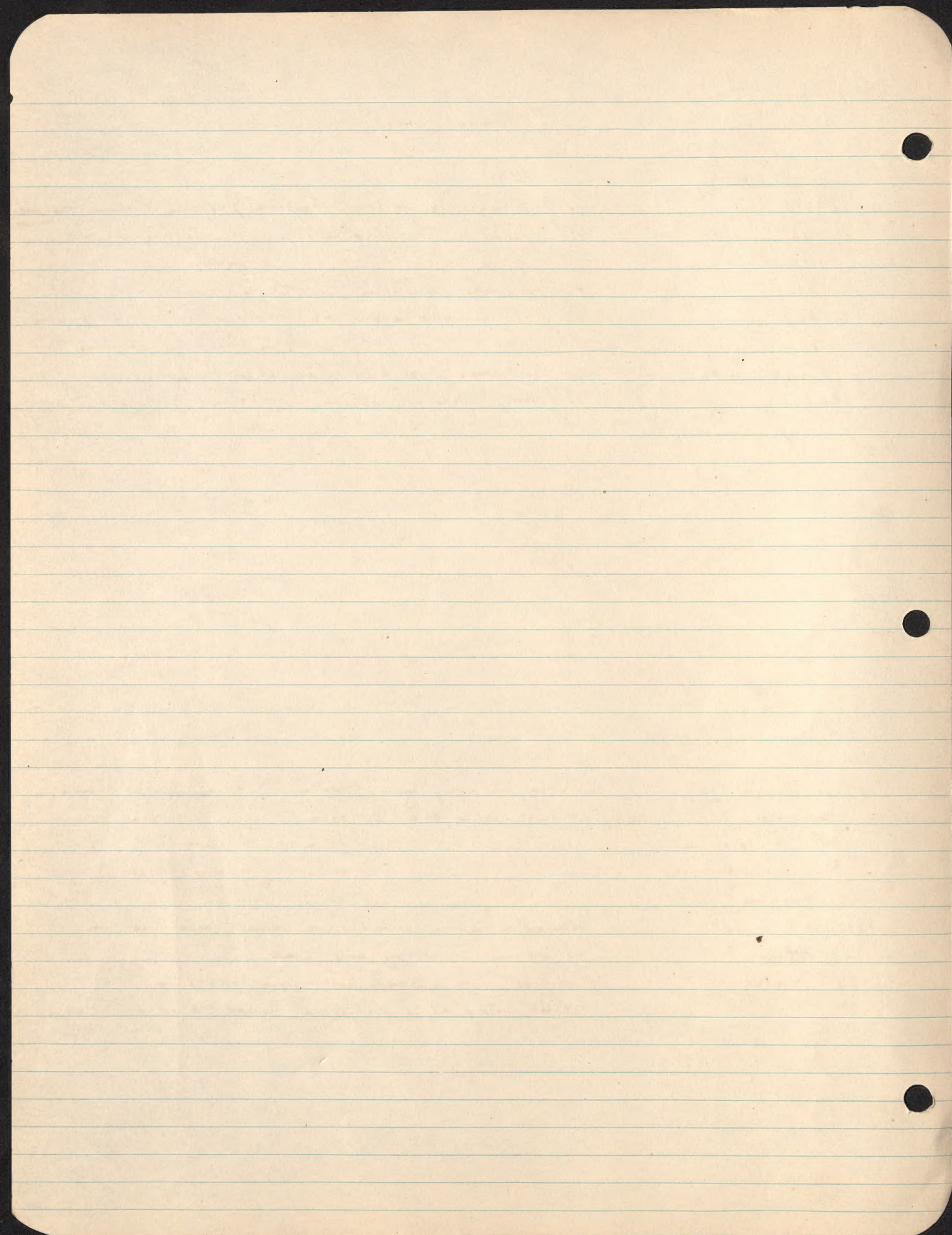
C. " " 15-25 cm. Fls. white

Grooved in sparse ground cover under *Casuarina* trees.

30-40 cm. Fls. very pale pink.

Amorpha grass in sandy laterite forest. 80-50 cm.

Moist grassy edges of a laterite swamp. to 50 cm. Fls. yellow.



Gardine River

Savanna forest

Epiphytes & parasites

18842. *Tournefortia*

82. "

18803. *Cassytha*

On *Acacia* sp. fls. orange-red.

Leaves glaucous. Fls. orange & red.

On ground & on grasses in mesquite forest: Fls. & fr. white.

Shrubs cont.

18886. *Boerhaavia*

?? *Phytolacca*

18902. *Boerhaavia* *linaria*?

Freq. in thickets in mesquite forest of latvite ridges
2-3 m. Fls. yellow, fragrant.

O. grassy banks of swamps & waterholes. 40-60 cm. Fls. purple.

O. in mesquite forest of ridges 1.5 m. Fls. pink. Fruit slender.

Ridges

18900.

12. *Eleusine*

C. moist sandy bottom fls. 50-70 cm.

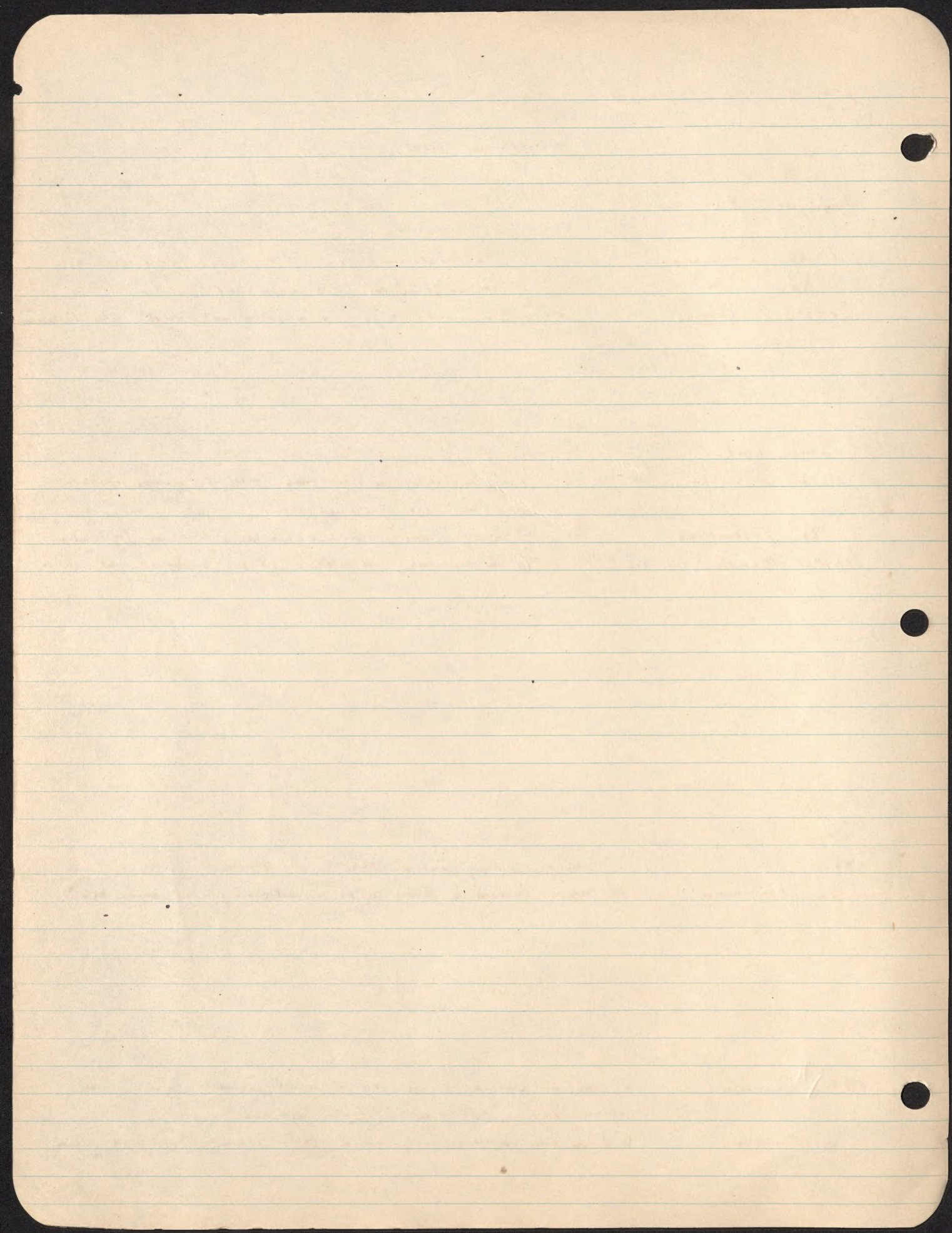
It major element in sparse tufted ground cover of wet bottom fls. 50 cm.

18901. *Reseda*?

06. *Reseda*?

It major element of the sparse tufted ground cover of wet
bottom fls. 35-50 cm. Plant grayish.

V.A. in open tufted cover of bottom fls. 30 cm. Plant pale green.



Gardens River

Turkey Bush

Trees

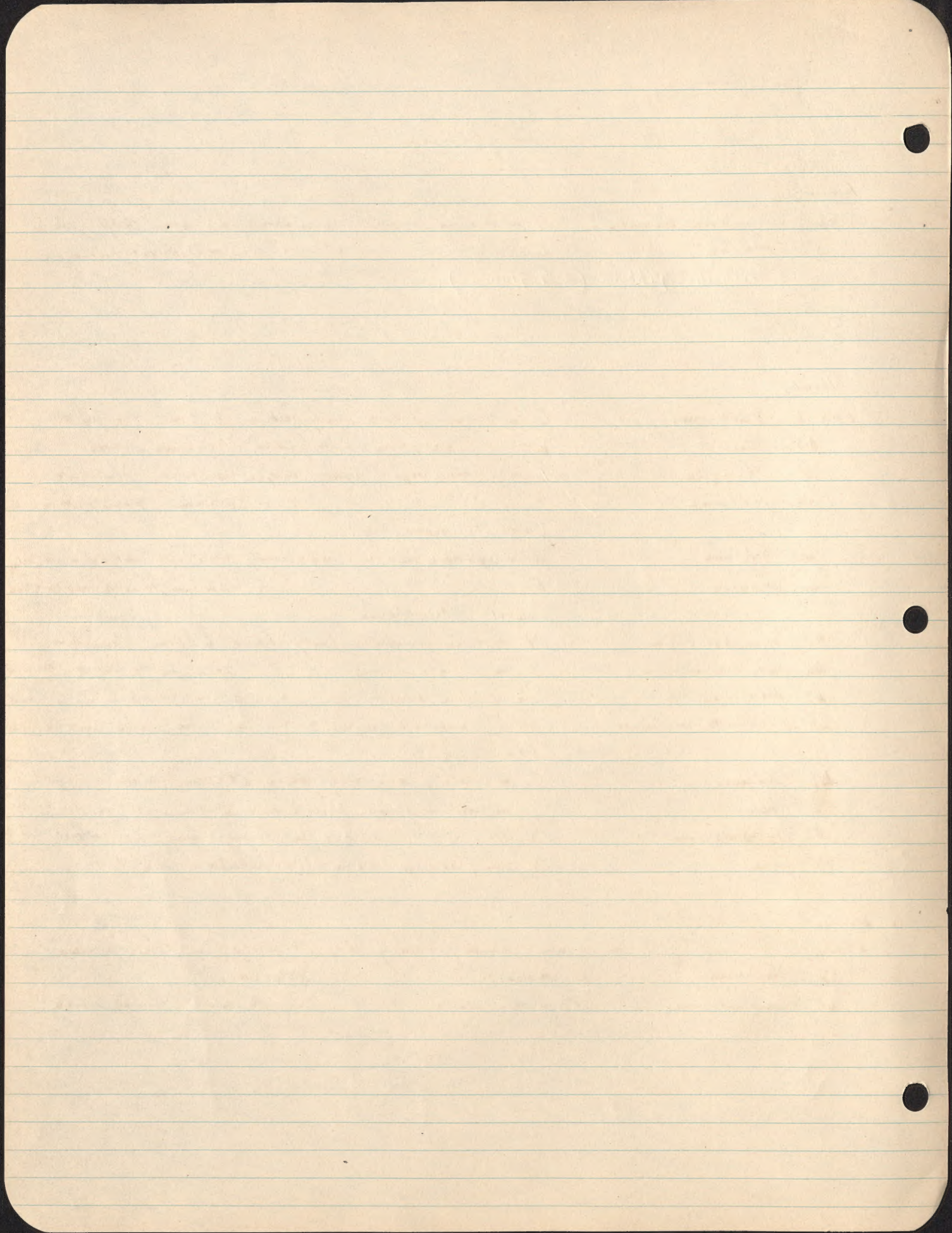
18851. *Panksia dentata*? A in wattle scrub. Tree or shrub. 1.5-4 m. Fl. 1/1: Fl. pr.
53. *Bocconia* C. " " " " 2-5 m. Phyllodes glaucous.
Emmilia gibbosa (= *E. glauca*).

Shrubs

18834. *Jacksonia* C. in scrubs of low sandy ridges. 1-2 m. Fl. pink.
35. *Rai* V.A. 20-30 m. Fl. yellow. Petioles scarious.
36. *Fungia* P. in scrubby veg. of sandy ridges. 40-60 cm. Fl. pink.
38. *Ribbia* F. " " " 30-50 cm. Fl. pale yellow
(also Newcastle Bay).
40. *Ribbia* One example in low scrub of sandy ridges. Cliff. not 50 cm. Fl. yellow.
41. *Bocconia* F. " " " 70-80 cm.; 100 cm. to subprostrate
habit. Fl. whitish.
43. *Gompholobium* A. in low growth on sandy ridges. \pm 80 cm. Fl. yellow.
44. Like *Gompholobium* S. in scrubs " " 30-40 cm. Fl. yellow (sterile
only).
47. *Ribbia* One example low " " 80 cm. Fl. yellow. Leaves broad.
48. *Morinda reticulata* Widely scattered scrubs " 40-60 cm. Fl. wh.; buds wh. above
pale green below.
49. *Lilic.* C. in scrubs of poor sandy ridges. 50-100 cm. Fl. wh.
52. *Euphorb.* C. in wattle scrub. Tree in dark gr. clumps 1.5-3 m.
56. *Gompholobium* S. " " 80-100 cm. Tree, slender. Fl. yellow.
68. *unsp.* S. sandy ridges \pm 1 m. Fl. reddish or green.

Herbs

18837. O. in scrubby growing on sandy ridges. 40-50 cm. Fl. pr. white.
39. *Prockia* S. in low " " " Fl. wh.
46. *Haemodorum* F. in open places " " Fl. red. (Generally sterile).



Gardens River

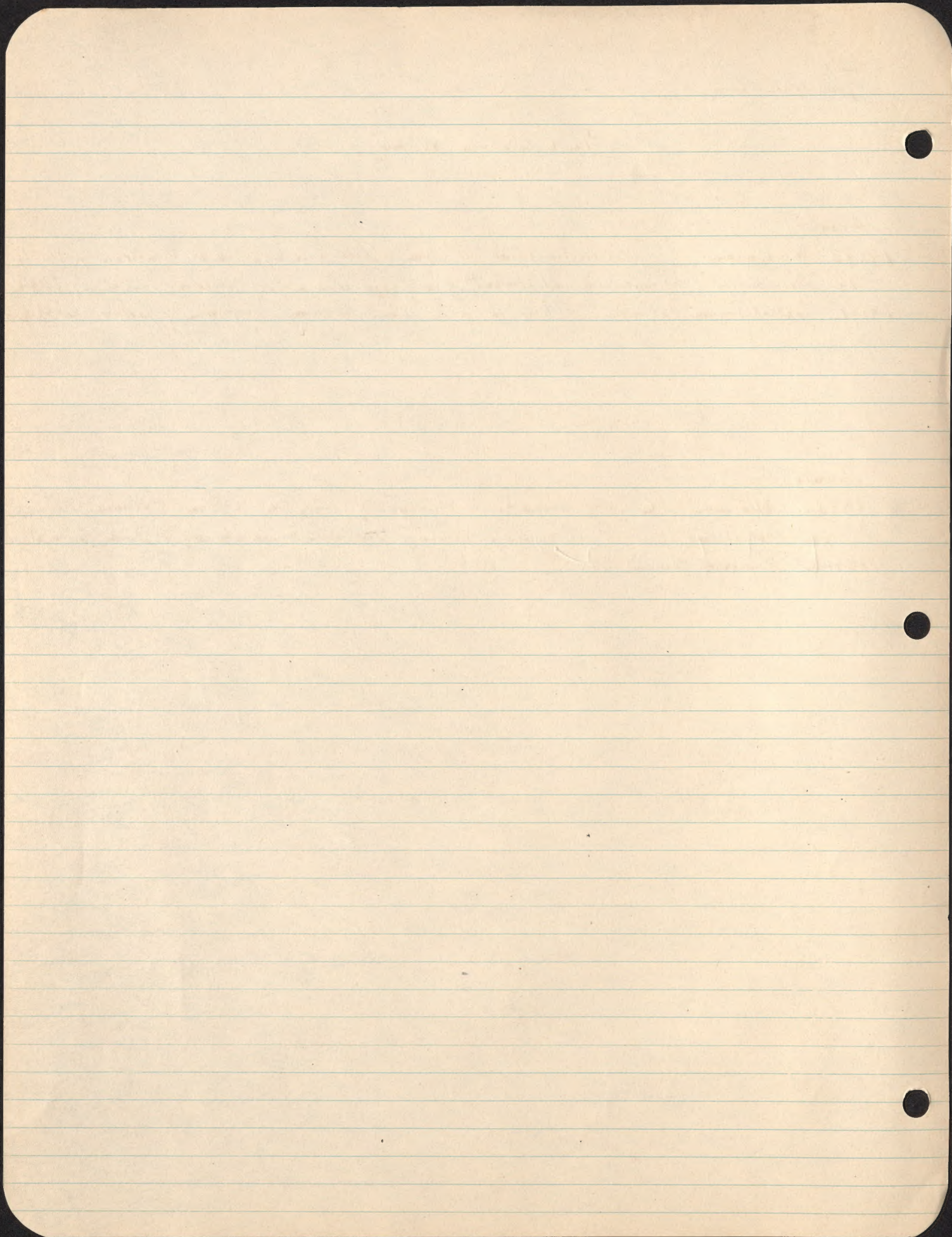
Black leather scrub.

Trees

18833. *Dodonaea*. C. tree or shrub 5-6 m. (also Landinga Bk. & Newcastle Bay.)
76. "Metrosideros" (a *Leptospermum fabricia*?). One of chief dominants. (Fls. yellow - just opening) 5-8 m.
18821. *Leptospermum fabricia*. Chief sp. of the scrub. 8-10 m. Profusion of yellow fls. = 18821

Shrubs

18832. *Epania*. C. Big leaved sp. of Newcastle Bay & Cook Bk. 2-3 m. Fls. white.
58. *Phytolacca*. O. many banks of swamps & waterholes. 40-60 m. Fls. purple.
18502. *Hebe* cf. *simii*.



Sardine River

River banks

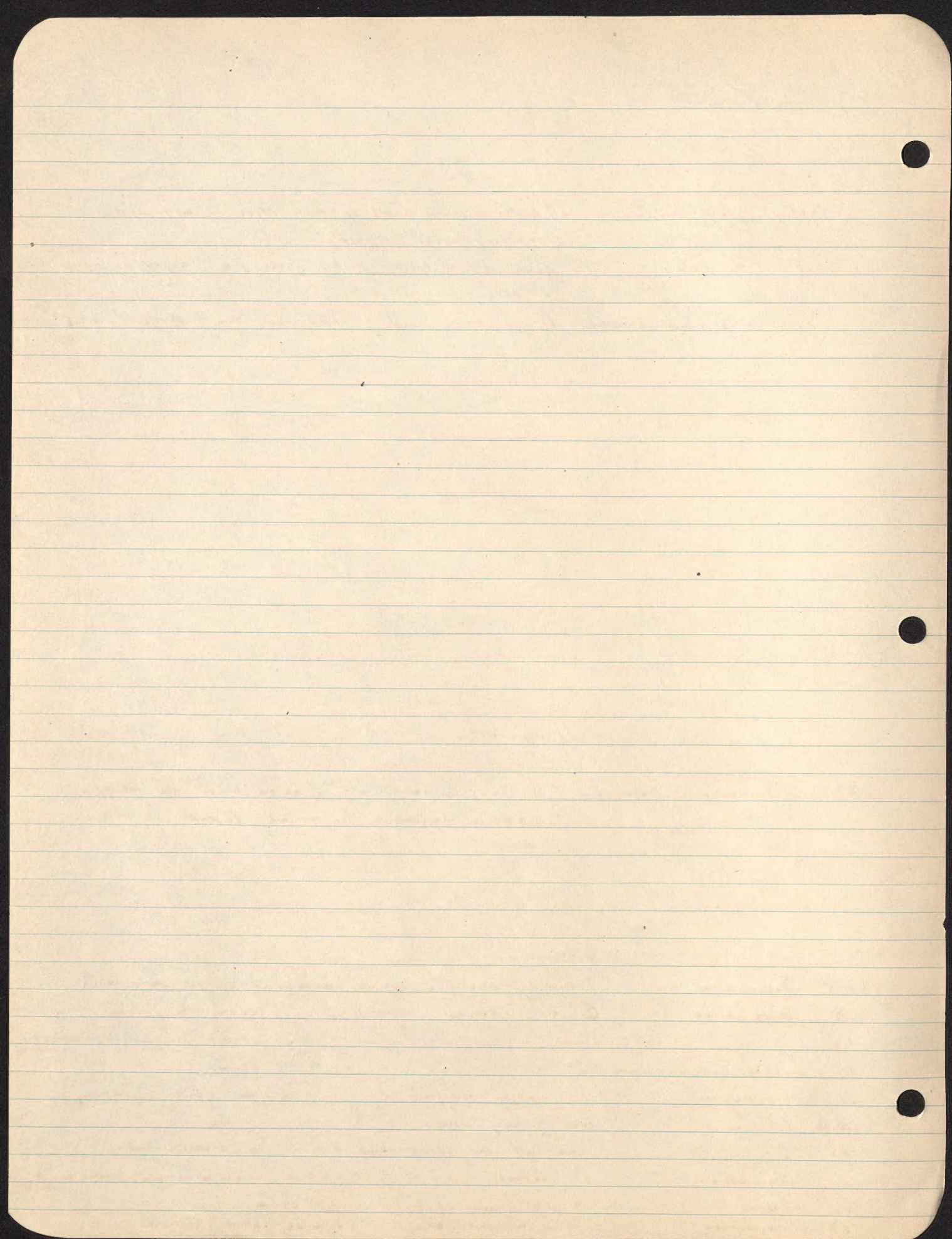
18877. *Elymus*? Banks of loose sand on river edges. 5m. Low spreading habit. Fl. white.
78. *Distichlis* Scattered on loose sand. Stems 1m. Fl. yellow. Leaves br. floccose below.
79. *Thysanotus oligandrus*. P. on loose sand of floodbanks. Free 6-8m. Fl. white

Wetlands

18898. *Eriocaulon reticulatum*? Erag. in shallows of a coastal pond. All but upper part of peduncles submerged. Fl. white.

Wetlands

18905. *Eriocaulon*. O. muddy soil of a seasonal marsh. 25-40m. Heads white.
08. *Utricularia*. C. " edges " " 10-25cm. Fl. yellow
09. " C. " " " 10-30cm. Fl. yellow, lvs. reddish below
10. *Lycopodium complanatum*. P. " " " 20-40cm.
11. *Polypodium*. C. sodgy margins " " 5-1m. Moss, scrambling.
12. *Briza*. Line. grassy edge " " Fl. wh.
13. ? Scattered wet grassy edges " " Fl. wh. later yellow
14. *Siamella*. F. moist " " 80-100cm. Social in groups. Distribution. Fl. white
15. *Ruellia*. A. wet sandy edges. 60-70cm.
16. *Utricularia*. Local on muddy edges. Fl. white, yellow & purple.



Sardine River

Tanamore Lagoon

Open sandy margins

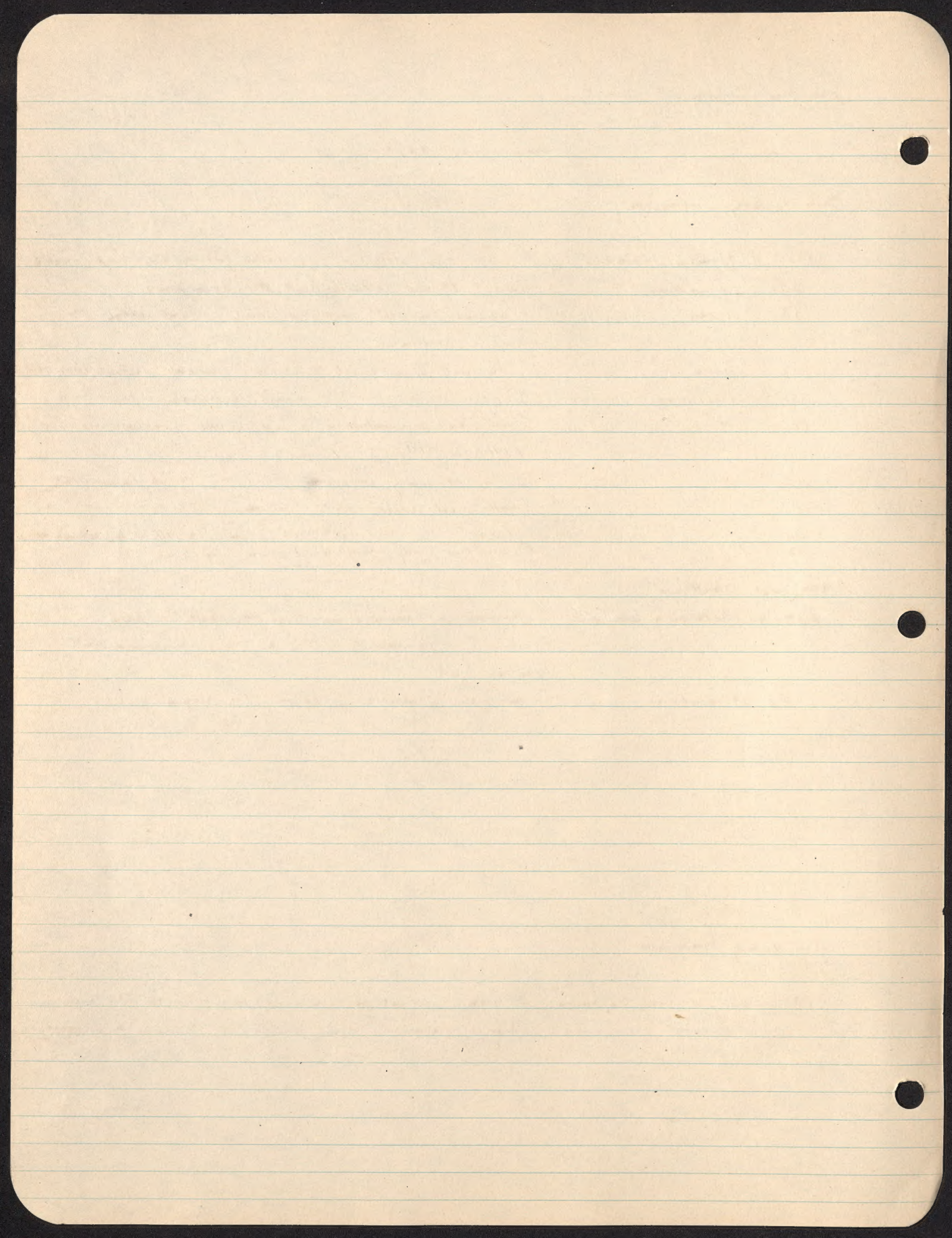
18850. *Neperthes mirabilis*. P. 30-40 cm. Pithers gr., mottled red outside, purple inside.
55. *Centranthes* Rare. Fl. lobes reddish-pink, tube pale pink.
58. *Eriosema* Scattered on wet margins (sandy). Plant reddish. Fls.
pink & reddish.
59. *Scleria* S. on wet open sand. \pm 25 cm. Spikes blackish. Root red.
60. *Utricularia* S. " " 2-8 cm. Fls. purple.
61 " C. on small accumulations of peat on wet open margins. Fls.
yellow & red. 3-7 cm.
62. " S. on wet sandy margins. 6-17 cm. Fls. wh., lip pale pink & purple.
63. " Small social groups " " 2-6 cm. Fls. " " "
64. " C. locally " " 12-30 cm. Fls. yellow; lip reddish below.
65. ? F. wet open sandy margins. \pm 20 cm. Fls. blue.

Marginal shallows

18854. *Metolacca leuc. var.* Forming an amphibious scrub in shallows with
Azoreis & *Sagina*. 2-3 m. Fls. greenish. Papery
whitish bark
57. *Utricularia* C. in water shallows. 6-15 cm. Fls. purple & gold.

Open sandy margins

18866. *Thymptocoma oligandra*. A major element in low scrub on wet soil. 50-100 cm.
67. *Azoreis* Chief constituent " " " 1-1.5 m. Compact & bushy.



Red Island Point

18524. *Cycas*.

(2 mi. SE). Grouped in s.f. of volcanic ridges. To 2.5 m.

Rain forest of sandy coast

18525. *Blodendron*.

Slender tree 7 m. Throng wh. fls.

26. *Ficus*

C. tree \pm 20 m. Large spreading canopy fls.

29. *Pongamia pinnata*

C. " 15-16 m. Fls. br.-purple.

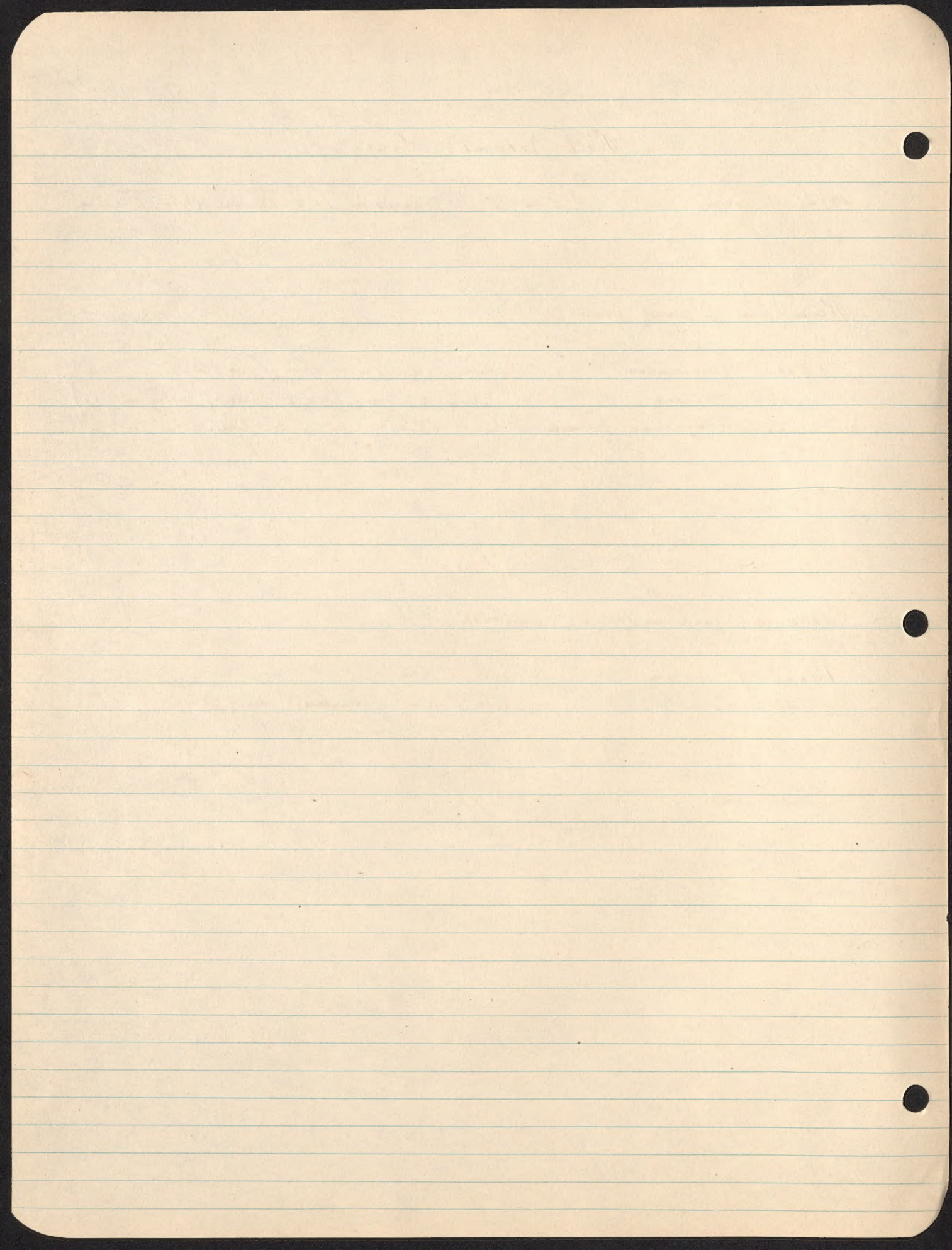
Wooded savanna forest near coast

18528. *Sansevieria*

C. tree 6-8 m.

30. *Albizia*

C. tree 6-8 m. Branches drooping.



Portland Roads

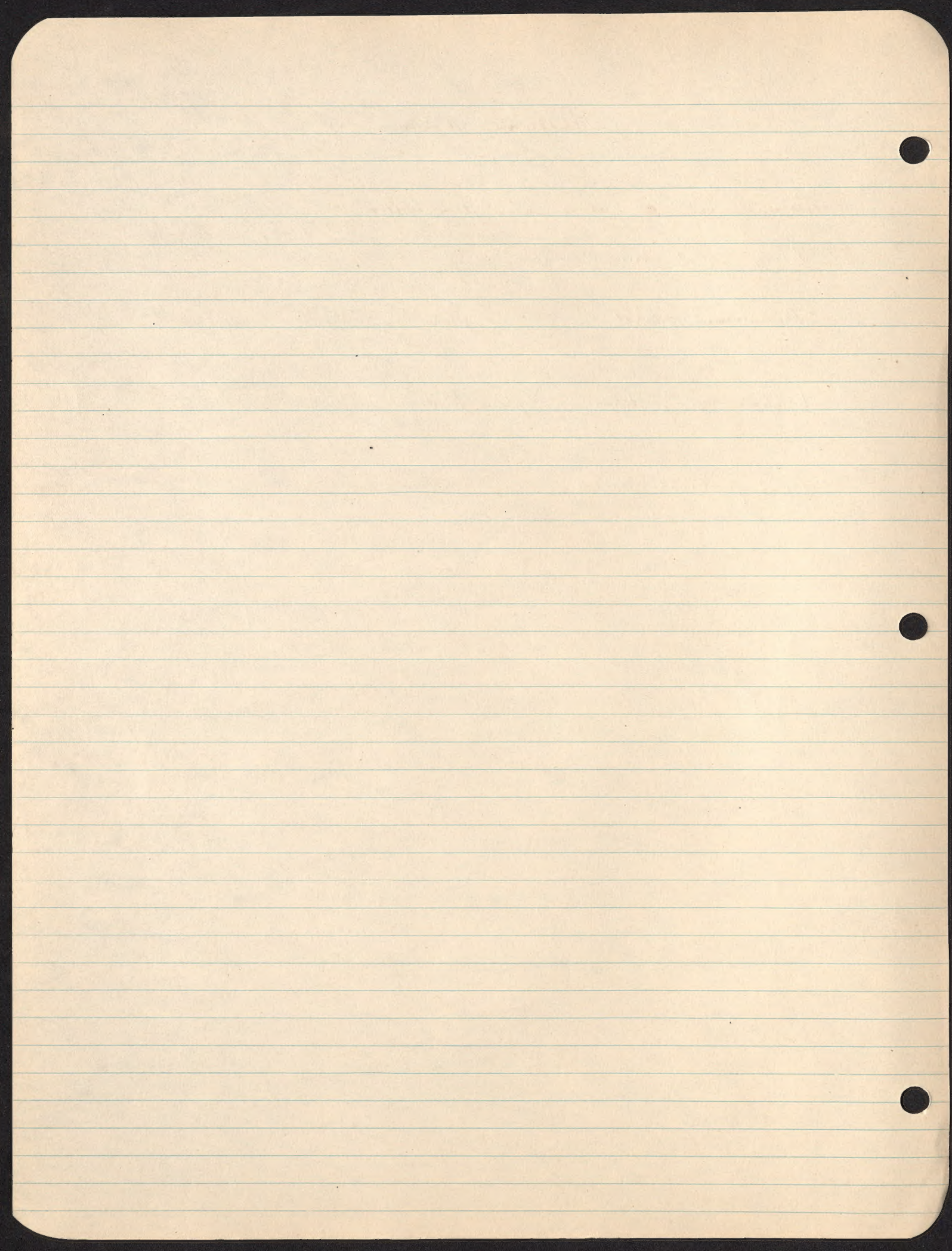
Rain forest of gullies on Hylen Hills

Brushy coast rain forest.

Savanna forest

± Open rocky slopes of Hylen Hills.

Turkey brush



Portland Roads

Rain forest of gullies on Ogden Hills

Trees

19010. *Truma*.

~~11. *Truma*~~

C. in brushy growths on hills. Tree a shrub 3-4 m.

Shrubs

19011. *Lepum*.

Brushy growths on granite hills. 3-4 m. Large shrub, weak reticulate habit.

12. *Hacourt*?

" " " 4 m. Fl. wh. (also behind mangroves).

13. *Phodomyces*

" " " 2 m. Fl. wh. fls.

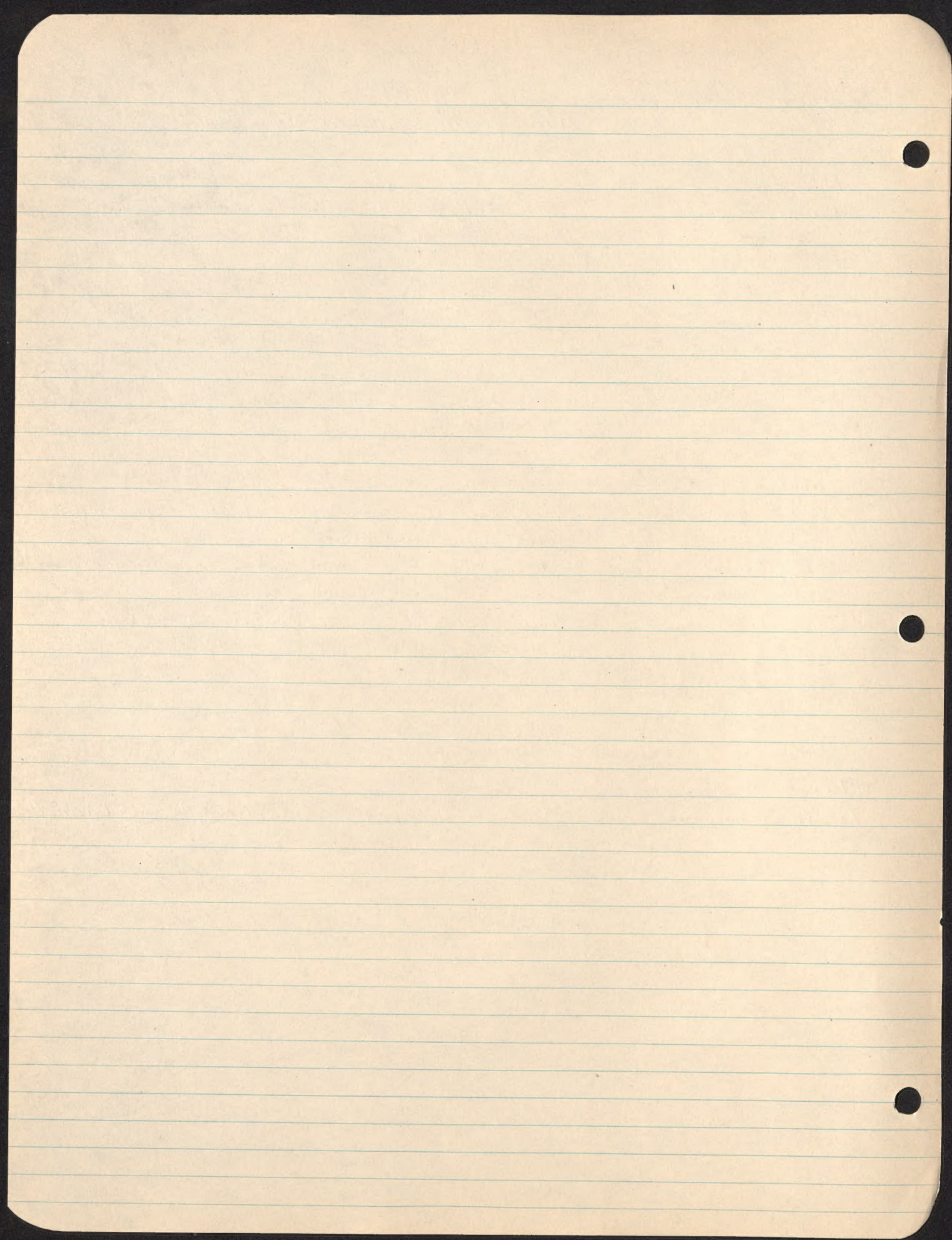
33. *Phalencia*

Undergrowth of Rf on granite hills. ± 1 m. Fl. wh. fls.

Vines

18938. *Canavalia*.

C. in brushy forest. 3-6 m. (vine) Fl. purplish-pink. Fls.



Portland Beach

18957. *Epac.*

Turkey Bush

Forming small patches of scrub in savanna forest of sandy granitic ridges. Plant 2-3m. Fls. wh. ^{leaves} large.

Bushy Coast-rain forest

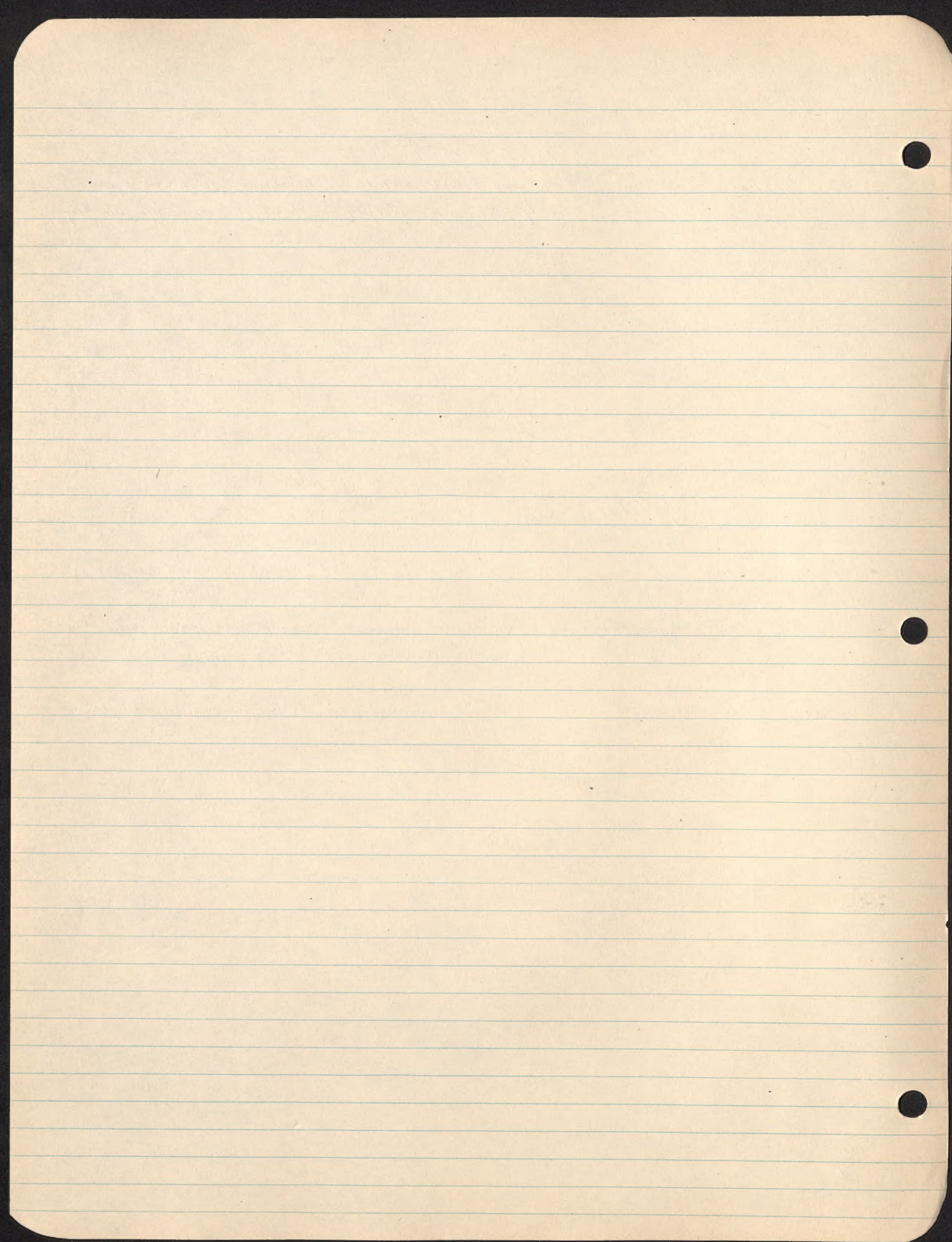
19014. *Sapoti*:

Tree 15m x 30cm. Fls. buds only. Rough gray bark.

19015. *Asparagus racemosus*. C. in bushy forest close behind ~~the~~ mangroves. Tree 2-3m. Fls. wh. Fr. red.

19017. *Tanacetum*

P. bushy growth close behind mangroves. Tree 6-8m.



Portland Rocks

Savanna forest

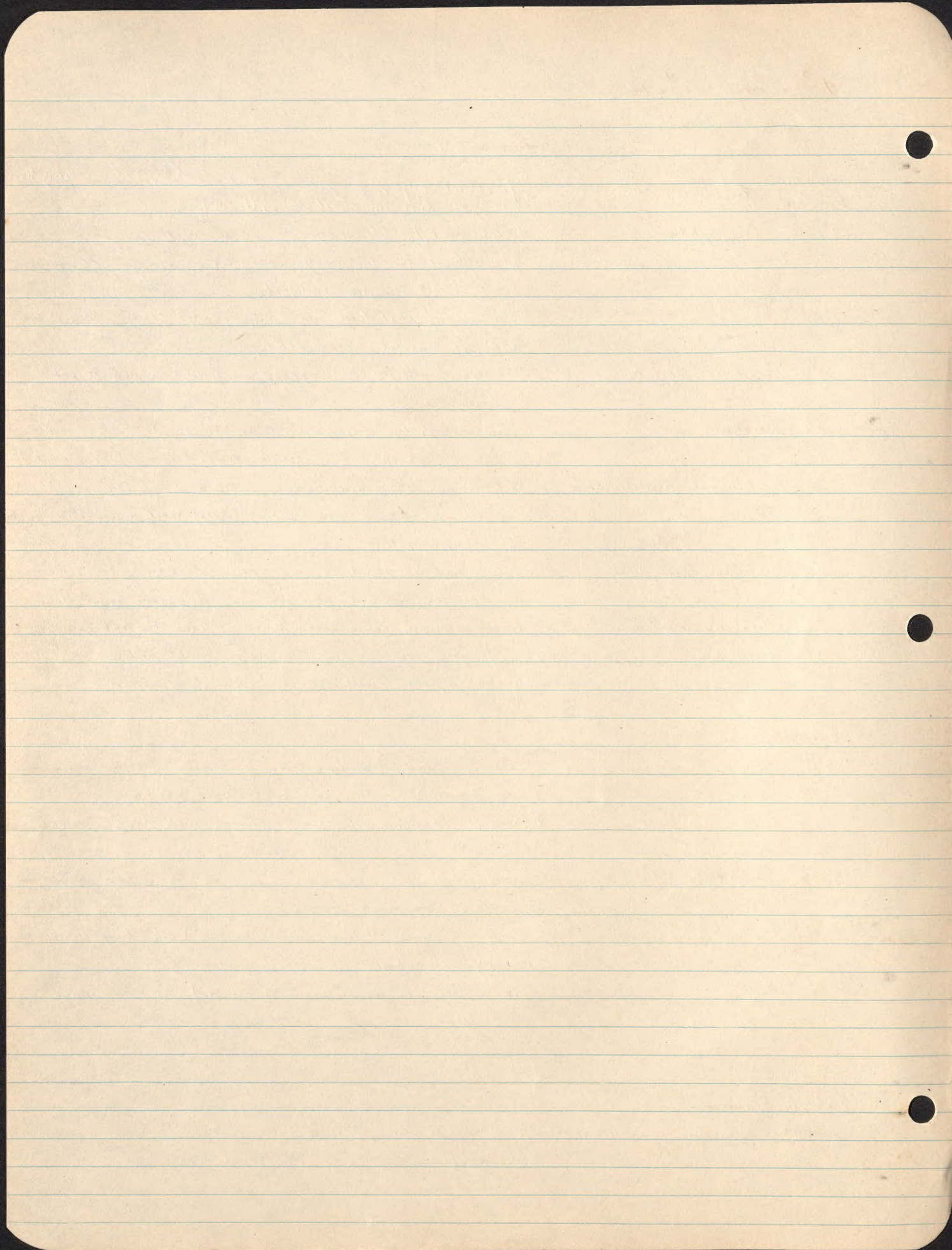
- Trees *Eucalyptus tereticornis*. Fl. about edges of gum forest. Largest - 8' through forest
 18952. *Eucalyptus* (Woodwood). Clear tree of SF on well drained granite ridges (20 m). 10-15 m x 25-40 cm. Fls. cream. Outer bark slightly reddish.
58. *Albizia* f. assoc. of the lenc. var. on sandy flats. Tree 5-8 m. up to 20 cm. dia. Fls. yell-gr.
59. *Ervillea stricta* (Woodwood). O. in Woodwood SF on sandy granite ridges. 6-7 m. fls. cream.
64. *Eucalyptus* C. SF. sandy low ridges & hollows. 15-18 m. x 25-30 cm. Fls. cream. Bark grey-fr. Leaves glauc. below. (Woodwood).
68. *Psittacanthus quadrilobatus* C. G. Woodwood SF, sandy granite ridges. 5-8 m. Fls. yell-gr.
69. " " C. with 18968. 3-6 m. Bushy shrubby habit. Leaves shining above. Fls. orange-yellow.
76. *Metaleuca laevis*, var. S. Woodwood SF sandy granite ridges. 10-12 m x 15-20 cm. Fls. pale red. Bark pale grey, papery. Young leaves glauc.
78. *Metaleuca aff. laevis*. Edging a sandy watercourse in SF. 4-6 m. Fls. pale yell-green.
91. *Eucalyptus* (Ray). Chief tree of open SF on very granite ridges. 10-15 m. Branches & petioles bright yell-gr.; leaves ± glaucous. Fls. ?

Shrubs

18953. *Euph.* C. in SF of sandy granite ridges. ± 60 cm. ^{Many} ~~Weak stems (many)~~
73. *Grewia* S. Woodwood SF granite ridges. ± 1 m. Fls. only.
77. *Hibiscus* f. near stream. ± 1 m. Fls. wh. with purple throat.
80. *Phyllanthus* S. in SF. 40-60 cm.
19018. *Sphorocarpus*. Forming low shrubs on open sandy flats close behind mangroves. ± 1.5 m. Fls. dark purple.
34. *Helicteres* P. in SF of quartz ridges. 1.5-2 m. Fls. purple. Very slender & sparsely branched. (Parkinson Sk.).
36. *Euph.* Local in SF of quartz ridges (Parkinson Sk.). 30-50 cm. Leaves ^{very} glauc.

Epiphytes & parasites

19008. *Coronilla grandibracteata*? On the lenc. Fls. & bracts green.
16. *Coronilla* On *Tanacetum* sp. Fls. bright orange red.



Portland Roads

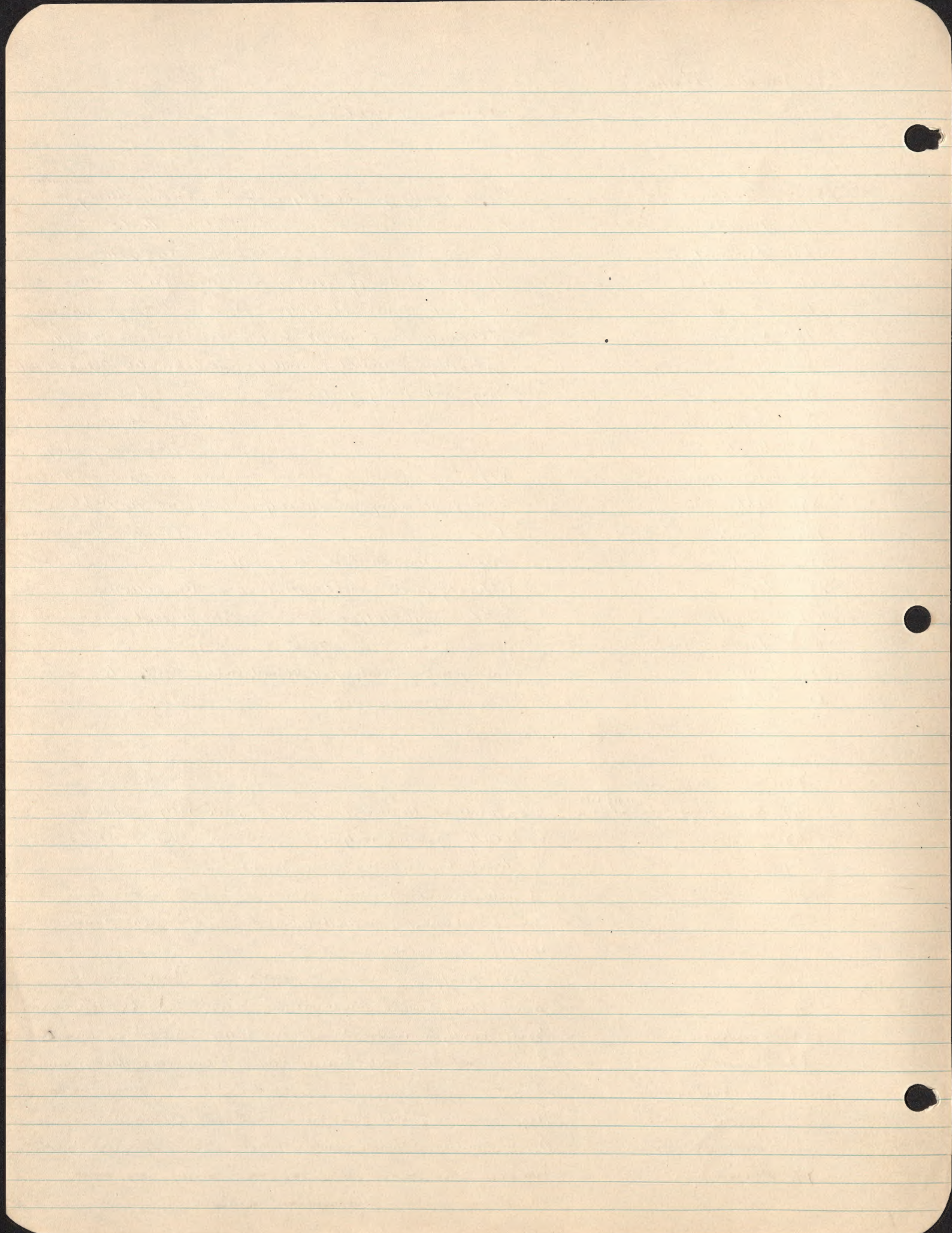
Savanna forest

Herbs

18860. *Maklumbigia* O. St. sandy granite ridges. 30 cm. Fl. blue. ^{ascending} spreading?
82. *Ponidium* F. " " " 30-50 cm. Fl. lavender
83. *Bommet.* O. " " " 30-60 cm. Fl. yellow.
86. *Bommet?* F. moist sandy flats. 20-40 cm. Fl. lavender.
72. *Polygal.* S. in St. of granite ridges. 15-40 cm. Thrips gr; fls pale
75. *Xyris* Scattered on a moist leather fls. 50-60 cm. Fl. yellow.
82. ? Spreading on muddy ground of a wet bottom fls. Fl. pink. fr. red.
83. ? Ery. wet sandy soil " " " 3-4 cm.
84. *Eriocaulon* " " " " 12-16 cm. Heads pale brown
87. *Scroph.* " " " " 10-20 cm. Ascending, fleshy.
88. *Utricularia* VII. " " " 20-30 cm. Fl. pale yellow
89. *Tephrosia* C. Gay St. along granite ridges. 60-80 cm. Fl. purpl
96. *Comp.* C. " " " 40-50 cm. Fl. yellow. Plant aromatic
95. *Comp.* Ery. on otherwise bare sandy soil in St. \pm 15 cm. Fl. wh.
99. *Leg.* C. locally in St. subprostrate 20 cm. Fl. yellow.
19001. *Polygal.* S. St. granite ridges. 30-60 cm. Fls purplish, sepals green.
93. *Trachospora* O. " sandy " " 40-60 cm. Fl. gr.
95. *Comm.* trailing gray sandy fls behind bush. Fls. deep rose.
35. *Calluna?* A. 2.f. of quartz ridges. 25-30 cm. Fl. wh.

Grasses

18847. *Helinopsis* ^{insignis} ~~contorta~~ Coarcted in Woodward St. of granite ridges. Height 1.5-2 m.
48. C. locally granite ridges. 30-50 cm. Spikes silvery.
49. C. thinly gramin " " 30-45 cm.
- 50 C. Woodward St. " " 60-100 cm.
55. Often chief element of ground cover of St. of granite sandy ridges. \pm 80 cm.
56. Ery. locally " " " 20-30 cm. Heads spreading
61. C. locally thinly gramin Woodward St. 20-30. Spikes silvery-wh.
65. *Sorghum* Ery. locally on moist sandy low ridges. 80-100 cm. Leaves trisulc
67. *Aristida* A. Woodward St. sandy granite ridges. May weak sparsely culmation
75. *Poltkeella?* O. " " " 1.5-1.8 m. Fls. few small culms
70. *Aristida* Ery. & covering hard open ground on ridges. Heads reclining.
94. *Helinopsis contorta.* D. on treeless granite hills of coast, & on creek flats in St. fls.
97. *Aristida.* Principal grass on open sandy fls. thinly littered with leaves. 60-75 cm. Tufts of few numerous culms.



Portland Rocks

Savanna forest

Ridges

18951. *Simbristylis*

One left; bloodwood St. of granite ridges. 70 cm.

81. *Funaria*

V.A. on wet leather flats. 40-70 cm. Soft, fleshy.

85. *Cyperus*

Freq. wet sandy soil " " 10-20 cm. Pale green

86.

" " " " 20 cm.

89. *Scleria*

Freq. ridges gallery woods (flooded ground) 1 m.

96. *Cladium*

O. poor sandy flats thinly combined with leather. 100 cm.

Grass cont.

18958.

Mimosa cymosa var. on thin, wooded leather flats. 30-70 cm.

19002. *Eragrostis*

C. sandy soil. Few weak culms 150 cm. long.

04. *Anthistia frondosa*

Freq. locally on sandy flats behind beach. 80-100 cm. Few small culms.

06.

A. sandy granite ridges. 60-70 cm.

07. *Panicum*

Covering parts of a sandy leather flat. 50-70 cm.

32. *Polypodium?*

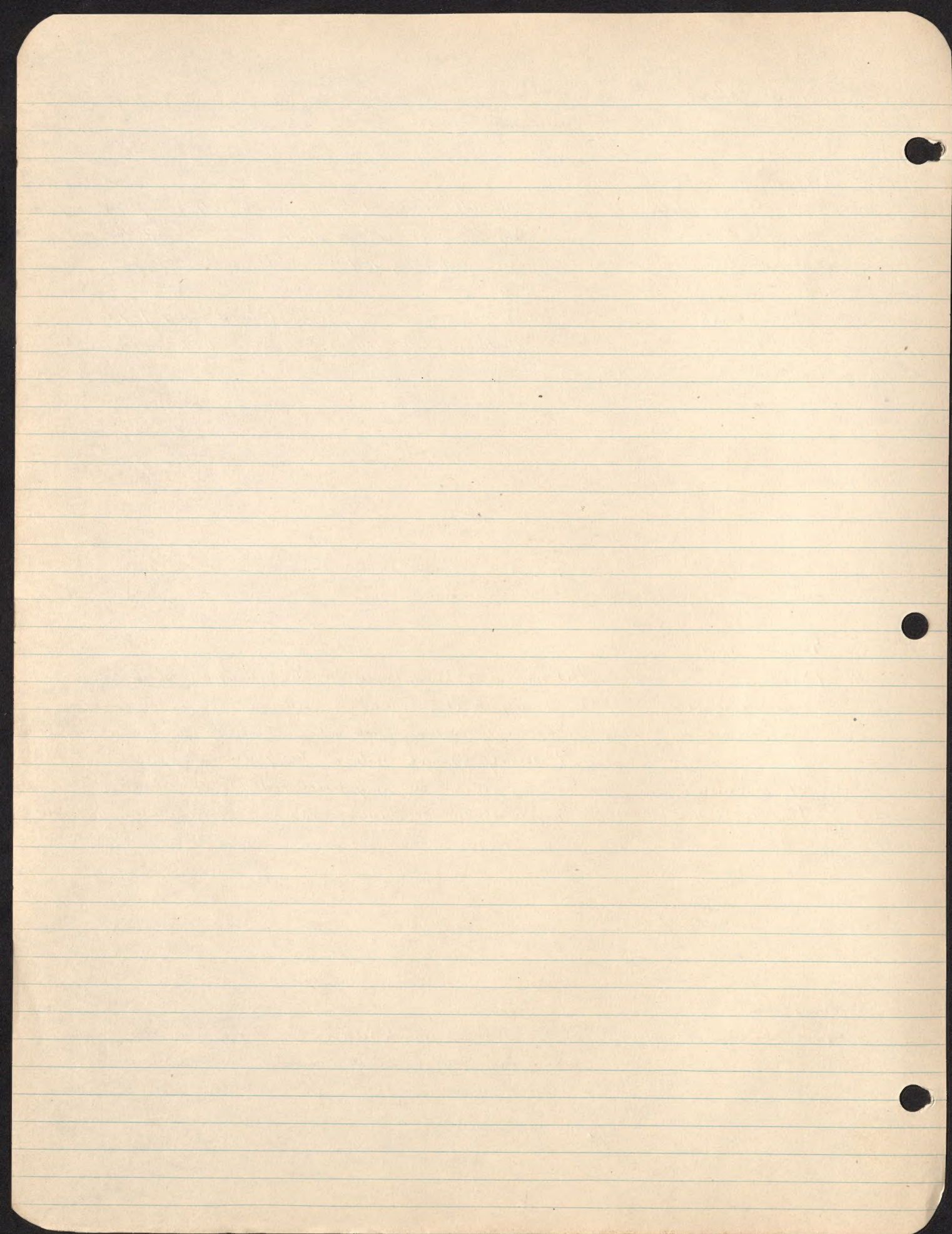
Freq. locally in St. jules. 1.5 m. Irritant hairy leaf sheaths.

Tree cont.

19000. *Metacuca* var. var.

F. 60y St strong granite ridges. 8-10 m x 10-15 cm. Fls. pale green.

Leaves stiff, grey-green. Bark laminated grey fibrous.



Portland Roads

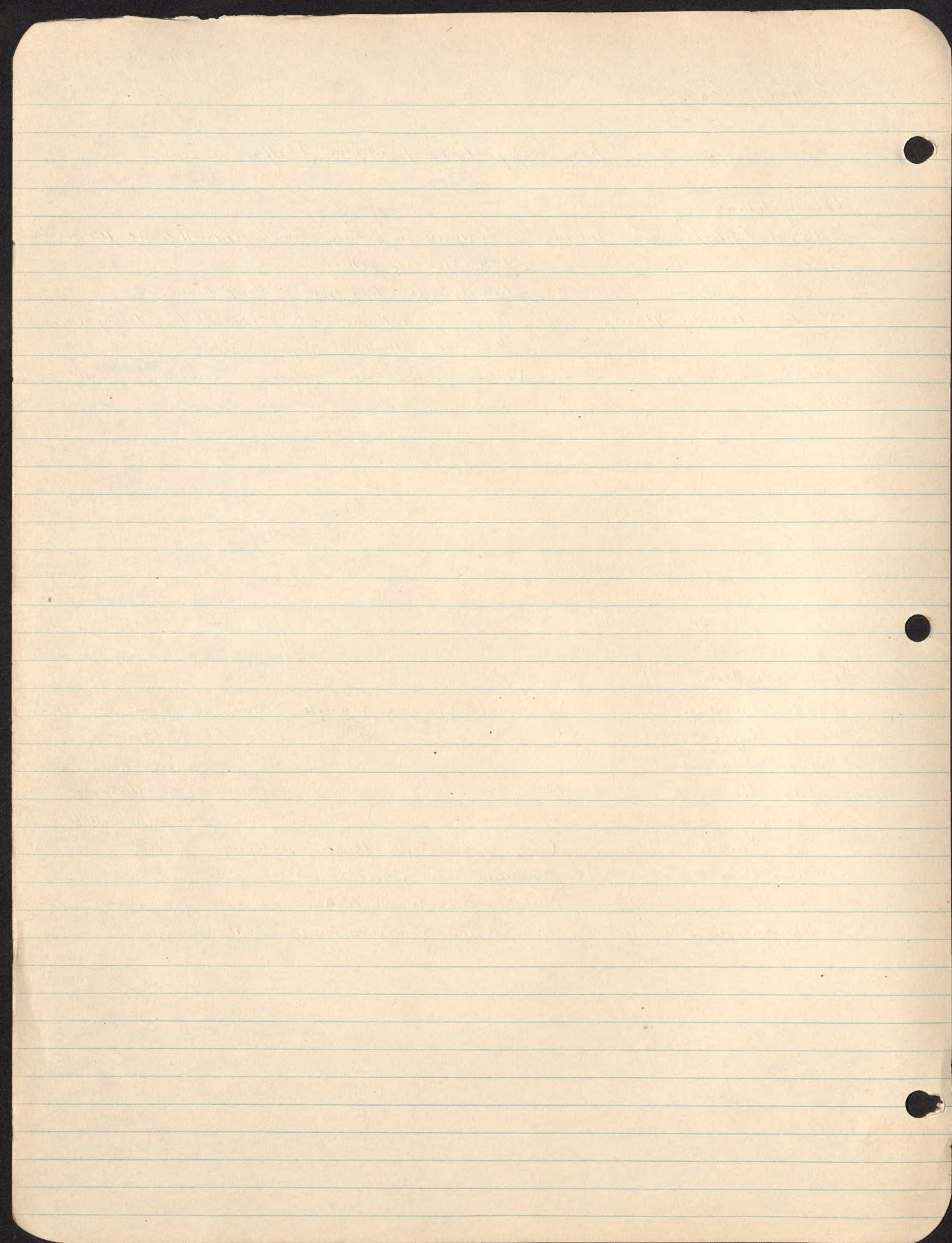
\pm Open rocky slopes of Stylen Hills

Woody plants

18741. *Leptospermum* *fabria*. Scattered on ^{gran} granite cross exposed to SE. Windy. Shrub 1-2 m. Fls. yellow.
43. *Santalum* (one sample. tree 4 m. Fls. yellow)
44. *Erwinia glauca* P. granite hillside. tree 3-5 m. Fls. wh. Young leaves brownish, old leaves grey.
19009. *Teplonina*. V.A. on grassy almost treeless hills. Shrub 1.5 m. Leaves greenish.

Grasses & herbs

18836. *Erioloma* S. amongst grass on granite slopes. 20-25 cm. Fls. yellow
37. *Lepum* C. " " " vine. 80 cm. Fls. yellow
- ~~38. *Canavalia*~~
39. *Lil.* F. " " " 60-70 cm. Fls. yellow.
40. *Rub.* F. " " " 30-50 cm. Wh. or bluish fls.
42. *Aristida* C. granite slopes. Wh. or, reclining
45. *Poa*. Proved under rocks. 25 cm.
46. ? Herb. on thin grassy patches. 3-5 cm. Fls. cream.
94. *Heteropogon contortus*. D on treeless granite hills of coast.



Iron Range Camp

Rain forest, flood plains

Rain forest, high ground

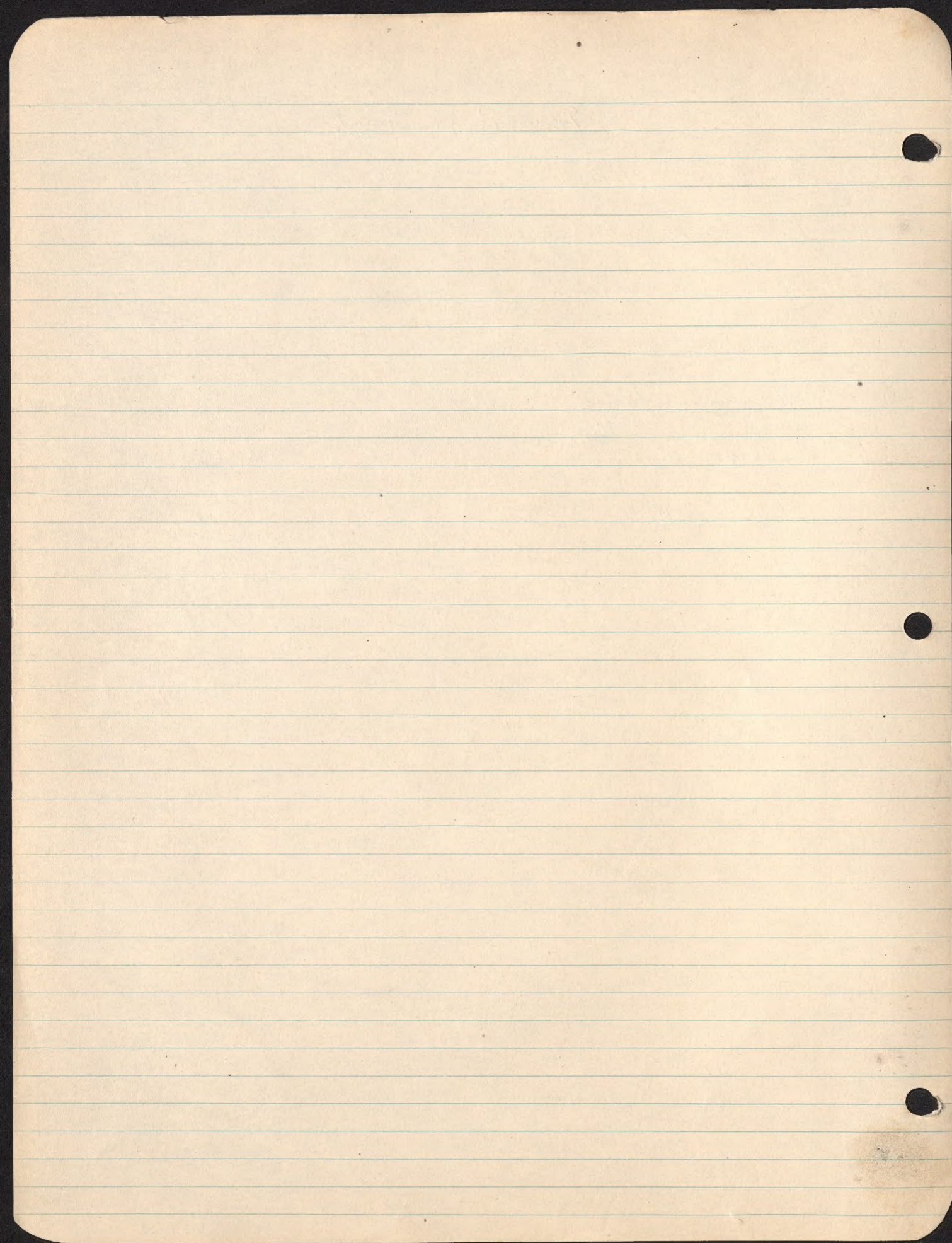
Rain forest regrowth

Rain forest marginal communities

Savanna forest

Turkey bush

Water plants



Iron Range

all: ± 20 m.
River plain, 3 bands of
flood stream.

Rain forest - flood plain

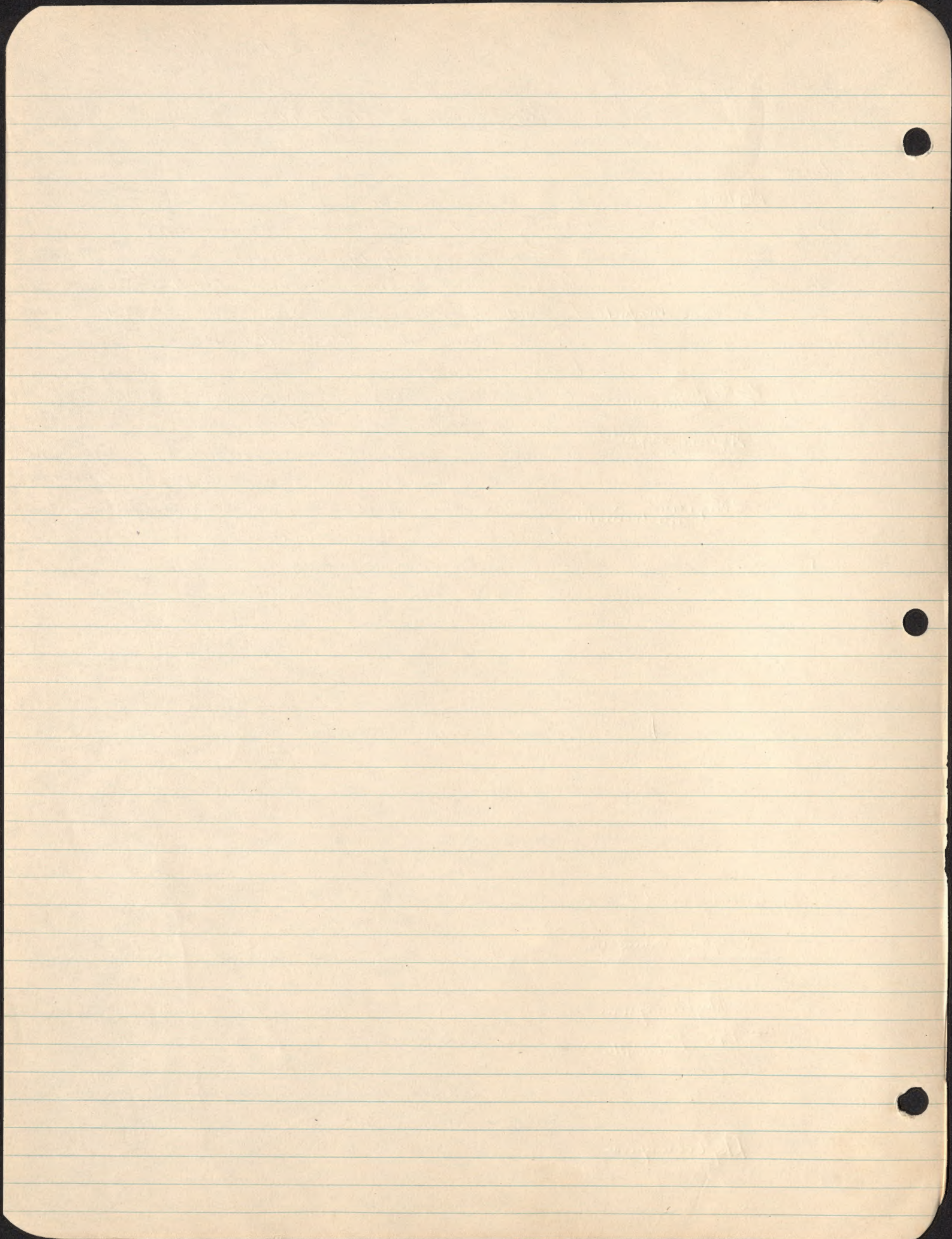
Trees

19048. *Alplasia* O. 10-12 m. Fls. yellow. Fl: ?
19109. *Panay*? F. Canopy tree to 30 m x 40 cm. Purple pink panicles.
11. *Tapoi*: C. Lower tree of canopy layer, ± 30 m. x 30 cm. Fls. yr. Fl: unisexual
14. *Rob.* O. 20-25 m. x 20-25 cm. Fl. buds only. Red fl. eaten by natives
15. *Myristica mifida* F. 2nd. story tree 20-30 m x up to 30 cm. Bark reddish br.
Lower glauc. below. Fls. ? Fl: unisexual.
~~16. *Alplasia*~~ ~~F. in understory~~
19157. *Alphandra*
olthamensis F. (lower ridges also) to 30 m x up to 60 cm. Fls. wh. Fl: ?
88. *Bumna* Understory 10 m. Fls. ? Fl: black.
19302. *Bumna*
Alplasia oppositifolia O. sap. milky. 12-14 m x 12-15 cm. Leaves to 80 cm. Fls. ? Fl: unisexual
04. *Lagerstroemia* 25 m x 30 cm. Fls. ? Stem unsmooth with ridges & depressions.
19653. *Alplasia*
medicinalis C. 15 m x 25 cm. Fls. wh. Fl: ?. Bloss to. bark. Young shoots
protected by large yr-wh. bud scales.
59. *Garcinia* F. to 20 m x 35 cm. Fl. buds only.

19069. *Pandanus* *prauelanus*
T. floodbanks of stream. 6-8 m. Stiff pinkish-orange bark. Photo

Woody undergrowth

19045. *Alpl.* T. 1.5 m. One unbranched stem.
47. *Gracilina*
cordata 80 cm. Fls. pale purple-pink. Leaf tips much recurved.
53. *Myrtus*? Tree 1-2 m. Fls. ? Fl: unisexual
54. *Alphicarpum* O. 1.5-2 m. Fls. ? Fl: red, fleshy, solitary compound
19108. *Alphicarpum*
lanceolata Tree 5 m. Fls. white.
10. *Pittosporum* Shrub 2 m. Fls. cream. Fl: ?
19255. *Bombos* Forming thickets on flood plain & lower ridges. 10-12 m. Fls. pale lilac.
56. " Probably a young preflowering stage of 19255.
65. *Alphicarpum* Tree 3 m. Fls. ? Fl: red, fleshy.
19309. *Alpl.* like *Alpl.* (P) P. in u.g. Tree a shrub 2-3 m. Fls. wh.
17. *Lumnice amara*. (on floodplain (P. in yellow)). Shrub about 2-3 m. Fls. wh. Large
shiny leaves.



Evon Range

Rain forest - flood plain

Vines

19055. Calamus

19112. ?

19112. *Stychnos*

19279. ?

P. on higher part of flood plain. Scandent or subscandent ^{2-10 m. Th. 1 cm.}

Vine 20 m. Fl. white. Fr. ?

20 m. or more (also on ridges). Fl. ? Soft fleshy yellow fl.

Tree fringing forest. 5 m. Fl. green. Fr. ?

Epiphytes & parasites

19041. Fern.

42. *Hymenoph.*

44. Fern.

49. *Asplenium nidus*

57. *Vittaria*

19113. *Hymenoph.*

17

O. low on tree. Leaves fleshy, iridescent above.

O. " " 2 cm. Small mats.

O. low, climbing.

C. nest epiphyte. Leaves 80-110 cm.

Small masses. Pendent 1-2 5-10 cm.

Shaded on brown tree trunks & rocks. 1.5 m. (fl. white & fr. ?)

2 hepatics
Mosses - epiphytic

19050. Moss

51. Hep.

52. "

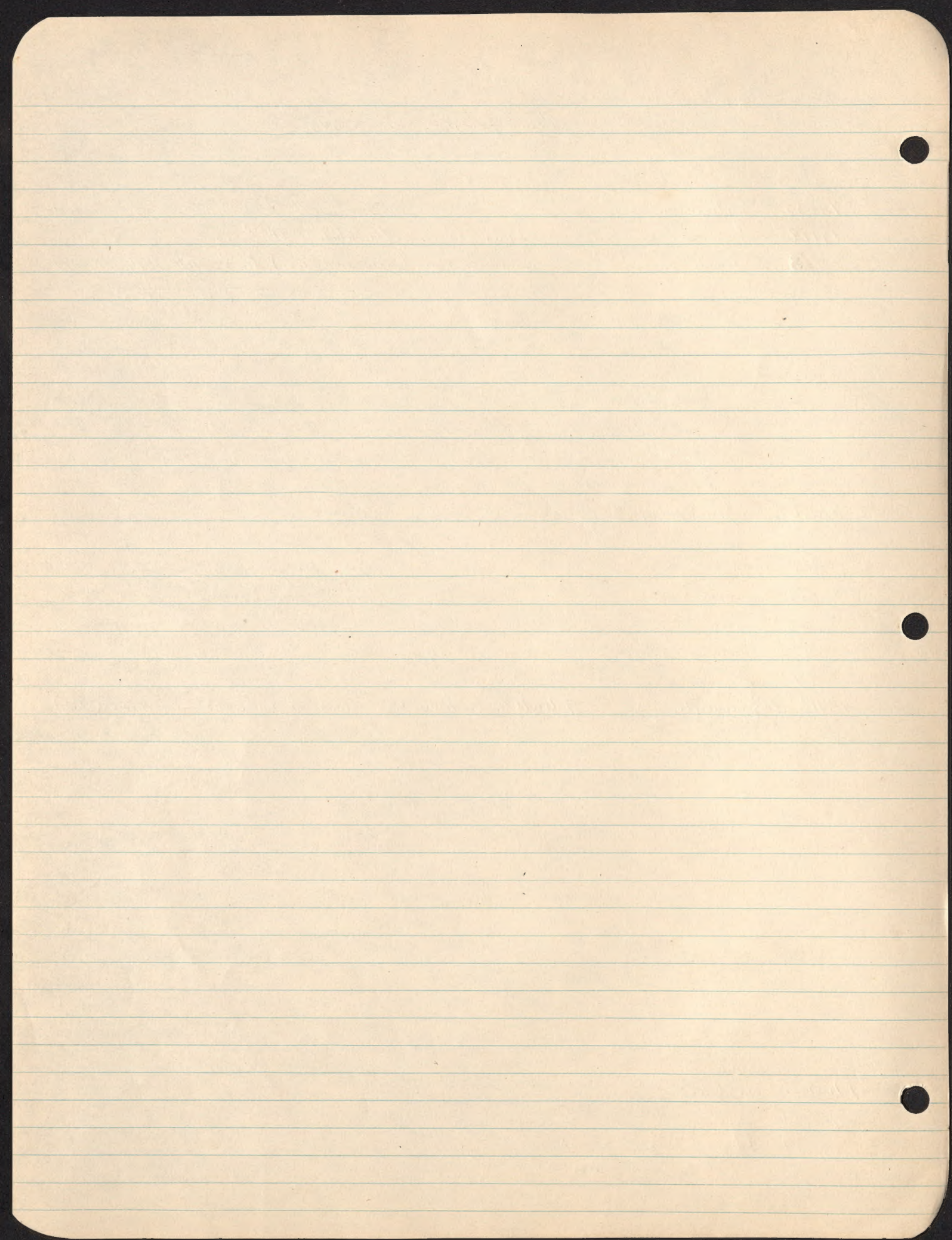
61. Moss.

Living bark of trees.

Decaying log.

" " " " " " This & 19051 the most fr. epiphytic.

Dead bark of trees.



Iron Range

Rain forest - flood plain

Woody undergrowth cont.

19654. *Pithecolitium*

O. shrub 1.5-2 m. Fls. cream. Fr: ?

Herbaceous undergrowth

19037. *Erythrina*

O. 50-70 cm. Rhizome short, ascending.

38. *Gram.*

S. ascending 40-50 cm. Fls. yellow

39. "

O. ascending 30-50 cm.

40. *Adiantum*

F. Deep swampy banks of streams 40-50 cm.

56. *Pennis?*

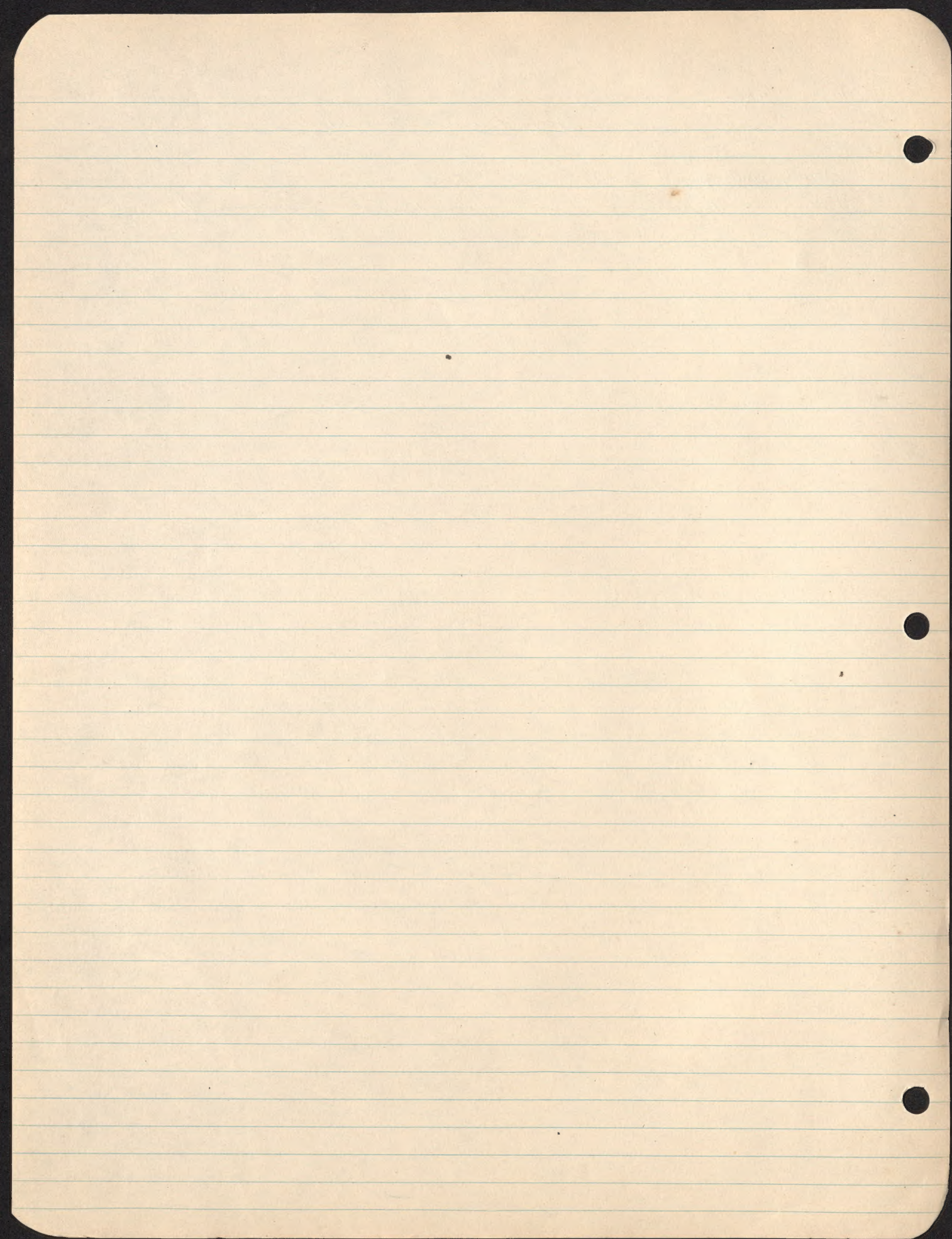
S. 25-30 cm. (Lockhartia also)

59. *Goodia?*

O. Banks of streams 30-35 cm.

68. *Tub.*

Ascending 30 cm. Fls. lavender.



Iron Range

Rain forest - high ground

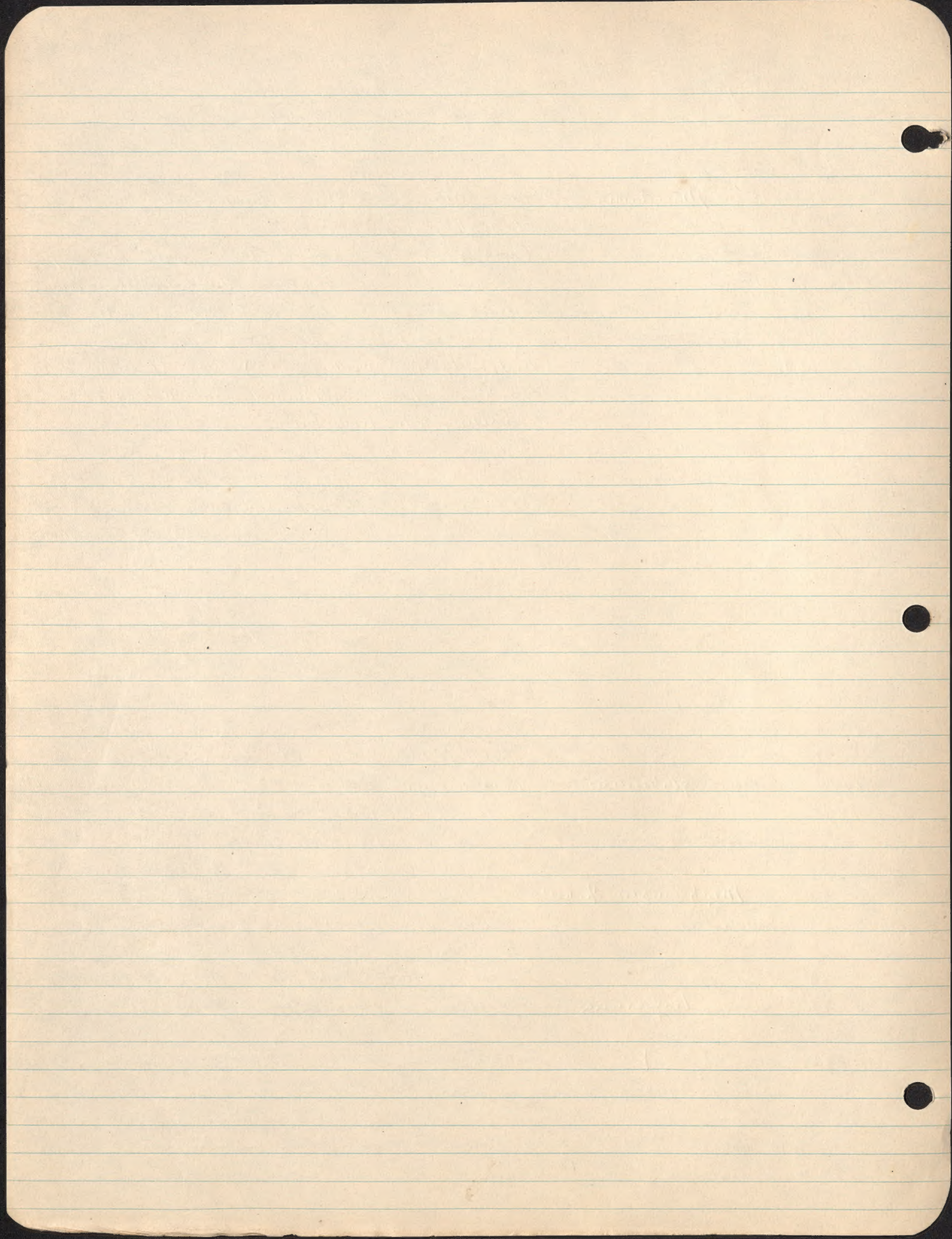
Trees, canopy

19124. *Prot-macadamia* Lower ridges. 25m x 35m. Abundant cream fls. Fl. ?
Thick, flaky - scaly brown bark.
49. *Terminalia* Lower ridges. 30m x 35cm. Fl. ? Fl. purple. Shiny grey bark.
52. *Anon.* " " " " 40-50m. Fl. ? Fl. green, aromatic " " "
99. ? Ridges. 20-25m. x up to 30m. Fl. salmon-pink. Fl. green
19200. *Lepid.* " 25m. x 35cm. Fl. ? Soft red fl. Bark grey, & fissured.
63. ? Ridges to NW. 50m. tall: 25m x 35cm. Fl. cream. Fl. smaller
Bark grey, hard, longitudinally fissured. Wood yellow,
smelling like raw bacon.
94. *Colophyllum* Ridges. 25m x 30m. Fl. wh. Fl. ? Grey & scaly bark.
98. *Centropogon australis* One of the commonest canopy trees in the r. forest. Up to
35m x 40m. Fl. red or yellow. Petals. Inf. lateral on smaller
branches.
19300. ? Lower ridges. 25m x 35cm. Fl. cream. Bark cream & orange fl. = # ?

Trees, subcanopy

19066. *Maunula* ? Tree 20m x 20cm. Fl. cream. Rough bark black bark.
70. *Manim.* Substage large, ridge R.F. 12m x 15cm. Fl. green
19116. *Heliconia glabrescens* F. in substage. 15-18m x 12-15cm. Fl. whitish (pink in bud).
19224. *Lepid.* Substage R.F. 12m x 25cm. Fl. ? Red flat, green
57. *Agavea sp.* / *Pittosporum* Ridges. 20m x 20cm. Fl. white. Fl.
59. *Clodendron* " 20m x 18cm. Fl. ? Fl. blackish, rays red.
66. *Mischocarpus* sp. nov. " NW. 20m x 25cm. Fl. gr. Fl. ?
76. *Stochidra* Substage R.F. 7m x 25cm. Fl. sp.
82. ? F. substage. 6-10m. Fl. gr. Fl. gr.
84. ? Ridges. 15m x 20cm. Fl. ? Fl. orange-yellow, soft, fleshy
97. *Liriodendron leucocarpum* Ridges. 20m x 25cm. Fl. green. Fl. ?

19293. *Pandanus prauetianus* C. in hollows & gullies. 10-12m. Long prop roots. see notes
19267. *Licuala ramscayi* P. locally in gullies. Fan palm to 10m.
19071. *Palm Pycnosperma elegans* F. on ridges. 5-7m, 10cm. arching pinnate leaves to 180cm. Fl. red.
19159. *Archontophoenix alfrediana* Edges of Suddens Bk. 16m. Large feathered leaves.
19207. *Eulalia costata* P.P. in wet bottoms of ravines in hill forest. Up to 35m.
50. *Palm* - Local Mt. Rhea 150m. Clumps to 16m. Pinnate
Hydrocharitaceae small arching



Iron Range

Rain forest - high ground

Woody undergrowth

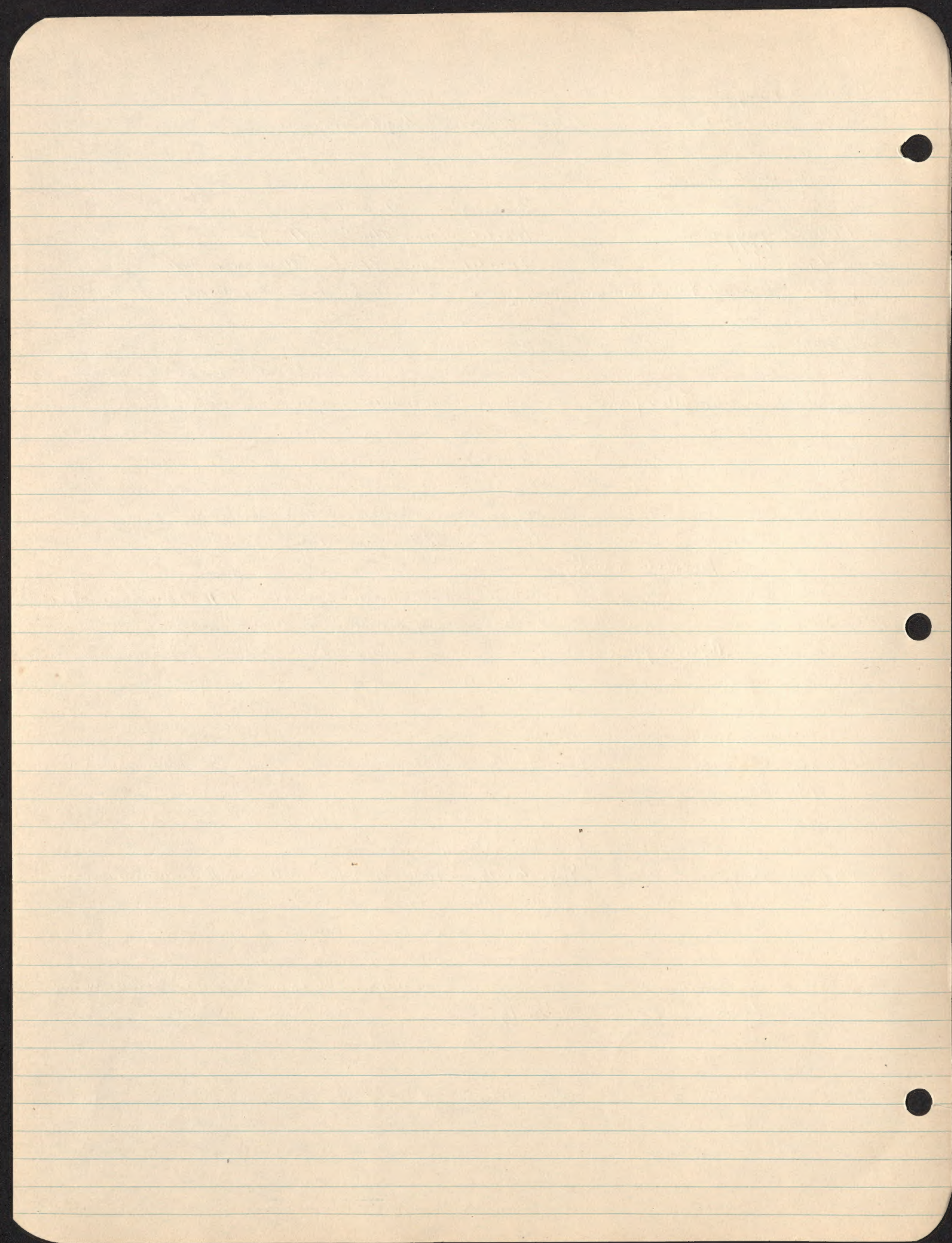
19096. *Maunim*. Shrub 1.5 m. Fl. red.
 19118. *Egyptium* Shrub 2 m. Fl. ? Fl. green
 19. *Rub.* Shrub 2 m. Fl. ? Fl. orange-yellow.
 21. *Tapind. Hesperis alba angustifolia* Tree 3-4 m. Fl. ? Leaves 15-20 cm long. Fl. red, etc.
~~26. *Prot.*~~
 19144. *Ulm.* Tree 4 m. Fl. green.
 45. *Bracaea* O. \pm 1 m. Fl. purplish wh. Stem simple. Leaves \pm glauc. below.
 46. *Brodia. Ellingiana* Dryish forest of ridges. 6 m. (tree). Fl. ? Fl.
 91. *Lopordia* F. in open situation. Shrub 1-2 m. Stem simple. Fl. wh.
 A very vivacious stinging plant.
 19208. *Rub.* Moist ravine in hill forest. Shrub 1 m. Fl. wh. Fl. wh.
 11. *Pavetta* Dryish forest of ridges. Tree 6 m. Fl. wh.
 17. *Aral.* O. ridge R8. Shrub 1 m.
 36. ? *Farrera brownii* Tree 5 m. Fl. ? Fl. dehiscent.
 55. *Bamboo*. Moist ground (mostly floodplains). 10-12 m. (Fl. Jul. p. 113).
 56. " Probably a young pre-flowering stage of 19256.
 64. ? *Phyllanthus* C. in gullies of ridges NW. Tree 5-6 m. Fl. gr. yell. Fl. ?
 87. *Legum* Tree 6 m. Fl. buds only. (Mimosaceae ?)

Herbaceous undergrowth

19078. *Juncus*. Open sandy bank of a stream. Prostrate. Fl. purplish-white
 73. *Lil.* " " " " 30-50 cm. Fl. wh. with dark br. anthers
 74. *Grass* " " " " \pm 60 cm. Ascending.
 75. *Brodia* C. steep shady bank. 30-40 cm.
 19117. *Junc.* Dry. locally on flats. 4-5 m. Red fl. with underground ovary.
 22. *Tapinochilos* ? 3 m. Bracts red.
 47. *Baccharis*. 50 cm. Fl. wh. veined purple
 48. *Leptaspis* F. dryish forest. Pedicel furled
 50. *Trantheum* F. " " of ridges. 20-30 cm. Fl. wh. shades purple.
 51. *Poa*. 1. locally " " " 40-60 cm. Simplicifolia.

Vines

19141. *Comp.* Lower ridges. 15 m. Fl. wh.
 42. *Uncaria* " " 15 m. Fl. ? Fl. green
 43. *Streptocarpus* F. " " (floodplains). Bright. Fl. ? Fl. yellow, suff. pink.
 19212. *Trichocarpa* ? Climbing 15 m. in a wet ravine.
 95. *Gynophora* F. climbing high on tops of canopy trees - to 30 m. Fl. ? Large orange fl.



Bon Range

Rain forest - high ground.

Woody undergrowth cont.

19281. *Manihot*. O. Lower ridges. Tree 5-8 m. Young leaves pink, very conspicuous in the forest.
99. *Cordyline*. F. in primary forest. Tree 4-7 m. Fl. ? Fl. orange.
19301. *Microbanium minutum*. O. tree 5-6 m. Fls. wh. Fl. orange.
21. Rub. Forming a thicket in an open gully. Shrub 2-3 m. Shiny wh. fls. ^{lanceolate}
29. *Barringtonia*. C. Banks of stream. Leaning stems 6-7 m. Fl. buds only.
30. Rub. Banks " " Shrub 1 m. Fl. ~~wh.~~ wh. = Fl. ?

Epiphytes & parasites cont.

19296. *Villaria*. C. large clumps high on trees. Pendulous 5-80 cm.
19322. *Dendrobium undulatum*. F. high epiphyte. Stems 50 ¹⁰⁰ cm. Fringed 3000 ft. fls.
19652. *Lamellaria*. Large sp. Fls. red.
56. " 40 cm. Encamp. yellow-gr. fls.
57. *Volothys*. On a tree. 50 cm. Fls. gr. Fl. green, waxy.

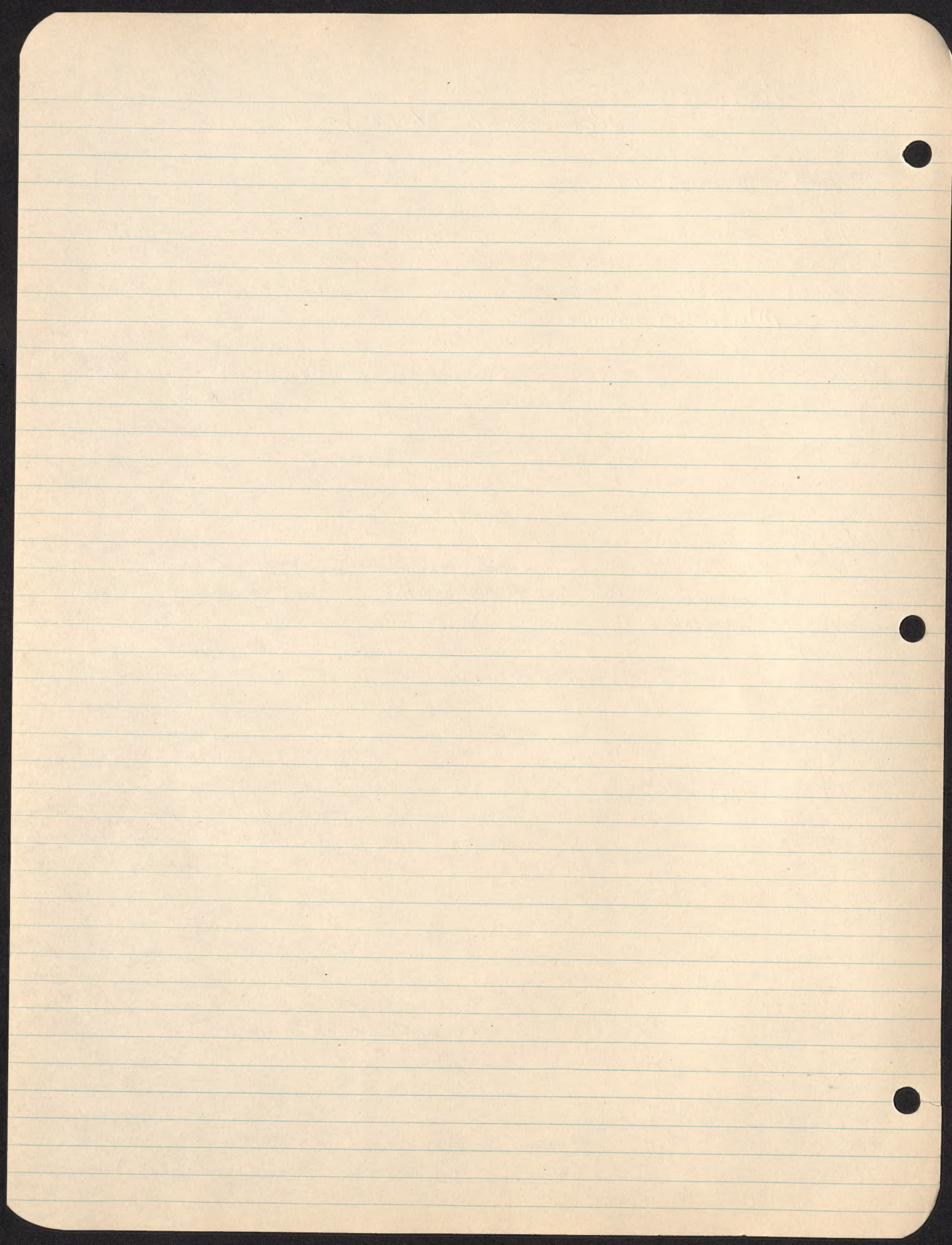
Vines

19326. *Freycinetia insignis*? A. in ravines. Very large sp. 20-25 m. Leaves to 110 cm. Petiole.
27. *Piper*. F. " Climbing shrub to 10 m. Fl. br-orange. ^{pleasantly aromatic}
28. *Freycinetia*. O. banks of stream. Scrambling & climbing to 10 m. Leaves small. ^{thick}

Substage trees

19331. *Morim*. 10 m x 15 cm. Fls. gr. yell. Fl. umbel. Stiff, often toothed leaves.
19658. ? 15 m x 12 cm. Fls. cream. Fl. ?
66. *Canthium*? 12 m x 15 cm. Fl. buds. Fl. 2 lobed.

19309. *Pandanus* off *pseudo-insignis*. ^{h. new} O. in gullies. 12-14 m. ^{very} large sp. with thick stem, branched crown, & many long, prickly stiff roots.
10. *Palm*. F. 4-7 m. Stem 1, slender. Unopened specimens only (eaten by rats?)
- Psychospermum capitatum* - *Jarkii*



Even Range

Rain forest - high ground

Epiphytes & parasites

19153. Fern. Mid & high levels. Rhiz scandent. Fertile leaves ± 1 m.
Shield leaves 25 cm.
54. Cyclophorus. High epiphyte. Leaves very thick & fleshy.
60. Moss. High "
89. Cyclophorus " " Leaves smooth, shiny, ± 10 cm. long.
97. Loranthus Fl. red, yellow & purple.
19246 Cyclophorus Tob. Mt. Thoa (80 m.). ± 30 cm. Leaves stiff, greyish below.
617. " " 9 cm. Leaves thick, fleshy.
51. Orch. F. low on trees. Fl. - smooth gr. & red.
52. Apleurium aff. nides ^{Forest} epiphyte: Leaves ± 110 cm. long.
75. Psittacophyllum. Low in gallery forest. Fl. br. green. Leaves ± 30 cm. long.

Herbaceous undergrowth, cont.

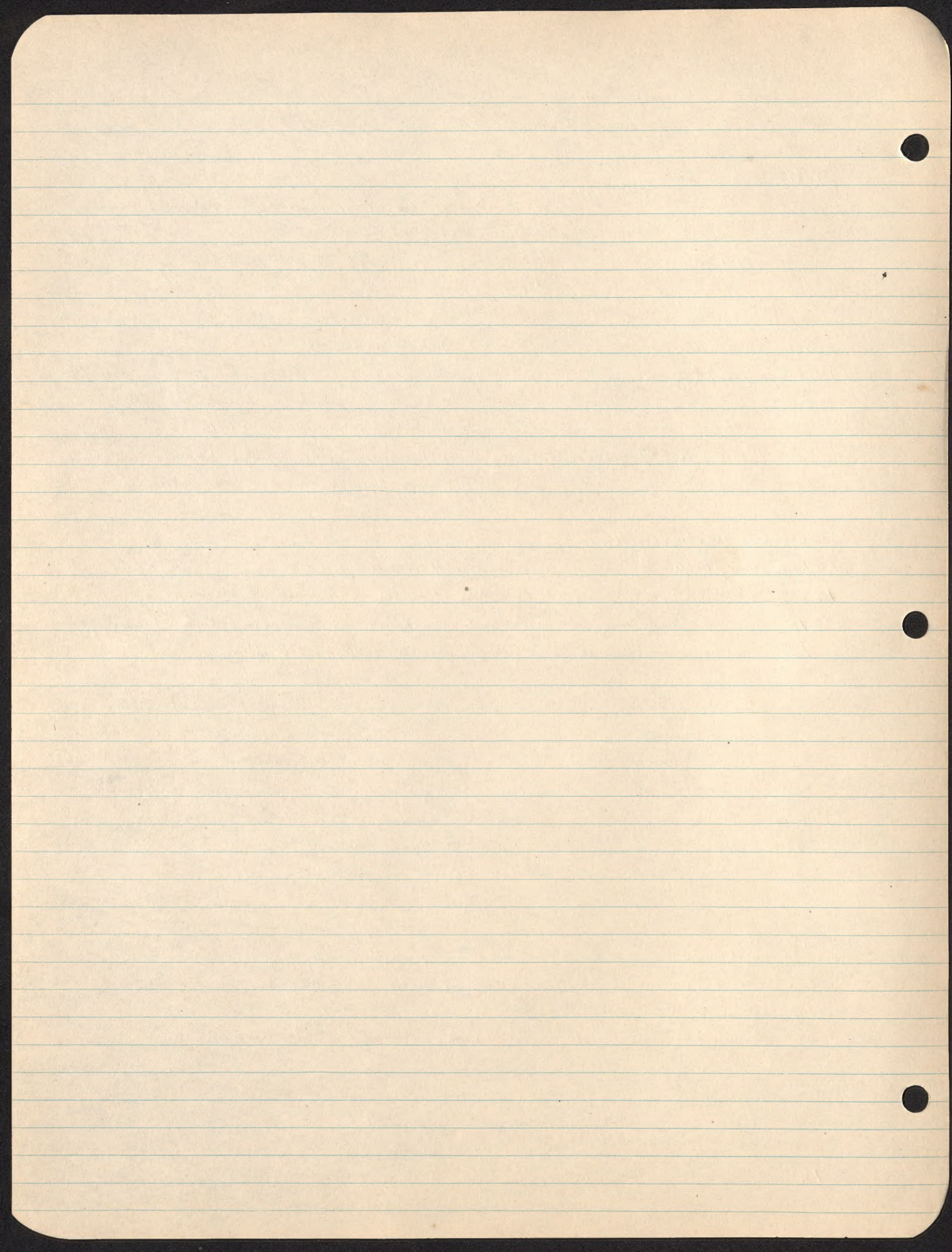
19193. Leptocarpus Eng. in small groups on ridges. ± 60 cm. Spikes pink.
19209. Hedyotis F on banks of streams in ravines. Shield leaves ± 5.5 m. long.
10. Thlaspiotachyum? Grouped in wet bottom " ± 1 m. Fls. bluish-grey.
16. Fern O. on banks of stream in a deep ravine. 80-100 cm.
34. Dryopteris Banks of a stream. ± 1 m.
35. Eranthemum 20-35 cm. Fls. wh. Leaves greyish below.
80. Hedyotis Thin forest on ground flooded in wet season. 80-150 cm. Large clumps.
85. Polypodium Scattered colonies, leaf littered ground. Yellow ^{growing} ~~leaves~~ ^{leaves} 10/11
88. Cyperus O. in openings. 70-100 cm. Stems mostly 1, erect.
90. Fern F in open parts on ridges. 30-50 cm.
19318. Gram. Eng. in openings. Tubercles $\pm 50-80$ cm.
23. Polypodium. Monocot. Dry shrubby edges.

Vines

19247. Calamus. P. on hills. To 30 m. Fl. unisexual.
53. Tacca Hills 150 m. (Mt. Thoa). 20 m. Fls. yellow; streaked & speckled purple inside.
79. " Trunk fringing forest. 5 ^{2m} Fls. green. Fls.?
91. Comp. O. To 15 cm. (= fl.?). Fls. pinkish-wh.

Mosses

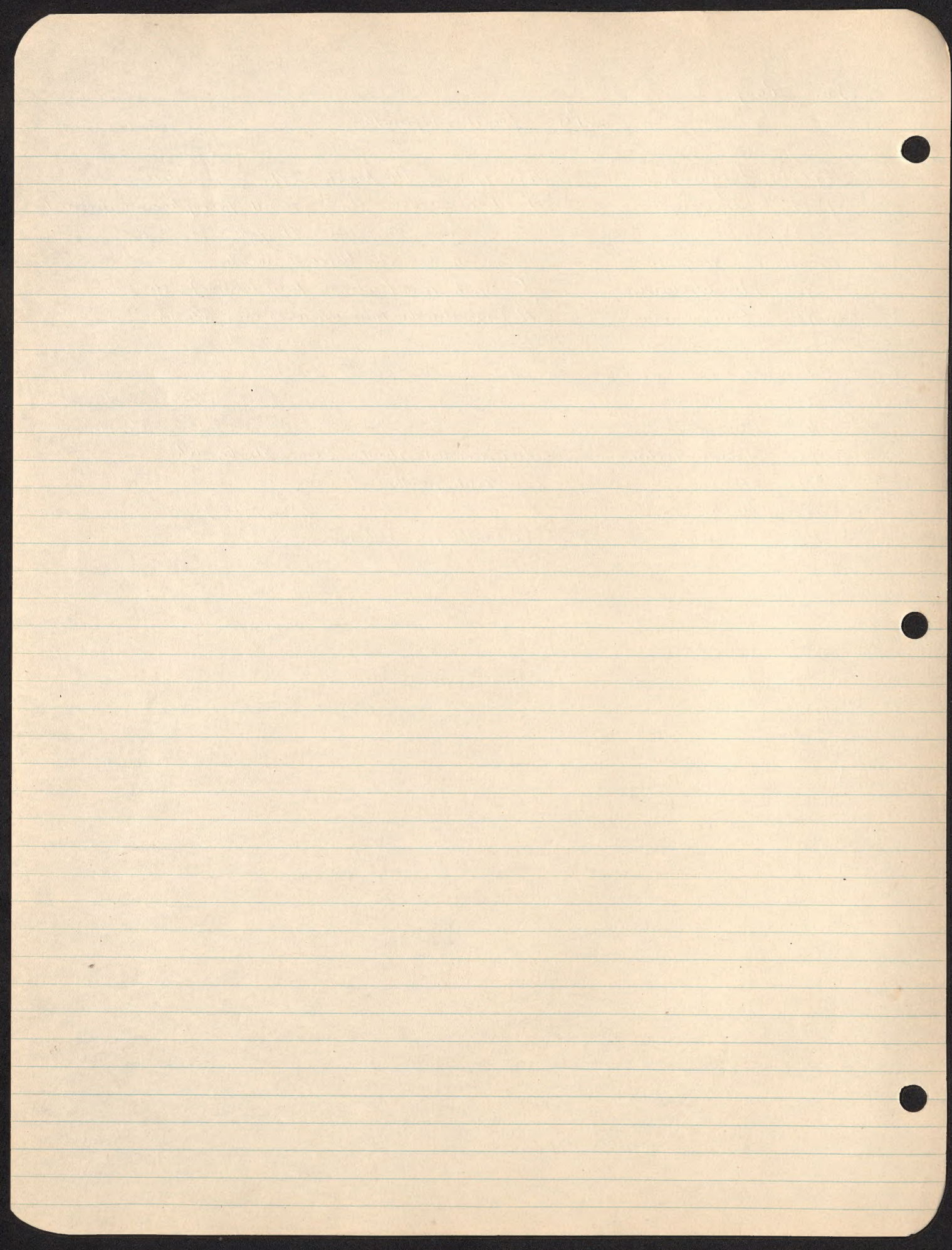
19204. Decid. in wood on ground.
5. C. lower tree trunks
14. Barkling rocks & logs in a moist ravine
58. Lower tree trunks in P. 8.



Iron Range

Pain forest vegetation

19120. *Solanum*. Tree 4 m. Fl. purple. Fr. ? alt. 20 m.
 19155. *Prunus* F tree 6-8 m. Fl. ? Fr. red. Young leaves coffee red.
 58. *Morinda* Tree 6 m. Fl. cream. Fr. yellow-gr, soft.
 19194. *Aristolochia* Vine 2 m. Fl. blackish purple.
 95. *Muehlenbeckia* C. up to 10 m. (also in forest margin). Fl. green.
 98. *Commersonia* A. characteristic tree up to 15 m. Fl. wh.
 19243. *Fern*. Dense growths up of Mt. She. 80-100 m.
 44. *Dodonaea viscosa*. Top of Mt. She. (180 m.). Tree 5 m.
 45. *Ficus*. " " Vine 3 m. Fl. wh. Fr. unripe
 48. *Anacardium* " " Herb 30 m. ascending. Fl. gr.
 92. *Tournefortia* Proscandent shrub 2 m. Fl. br.-wh.
 19311. *Musa*. F in bud. growths. 3-5 m. x 10-15 m.
 15. *Macaranga*. F " " Tree 5-7 m. Fl. green.
 16. *Panicum*. Scrambling to 3-4 m.



Iron Range

Rain forest marginal communities

Trees

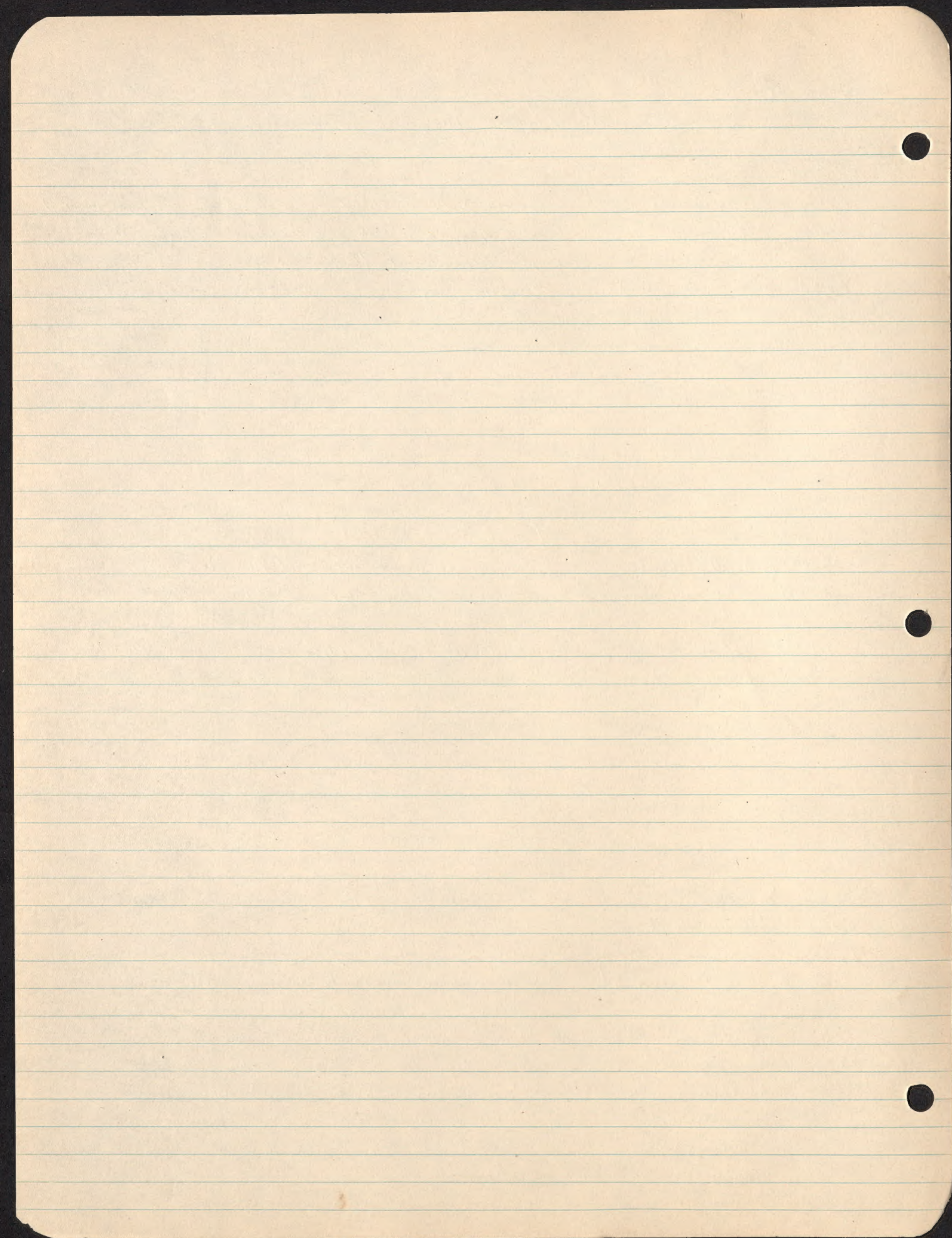
19060. *Meriania*? Tree 10 m x 15 cm. Fl. wh. (Shrub in *Savanna forest*)
 19190. *Urtica* F in edges. W 25 m. x up to 30 cm. Fl. wh. Fl. 45 cm. long.
 96. ? Dryish edge of gully Rf. 15 m. x 15 cm. Fl. ? Fl. 15 cm. diam.
 19332. *Timonius Rumphii*. Margins of dry forest. 10 m x 20 m Fl. wh. Dark rough bark.

Shrubs

- ~~19061~~ 19105. *Pandanus*? Leaves scabrous. Thorny wh. fl. 1.2 m. tall. (Ridge)
 19221. *Rub.* Edge of forest (gully). Shrub 1 m. Fl. wh. Fl. ?
 93. *Cassia* F 2-3 m. Fl. yellow. Leaves punctate below.
 19333. *Rhodanthe* C. locally in brushy edges. 2-3 m. Fl. ? Fl. white.

Herbs

19064. *Scleria*. O. large clumps \pm 1 m. Fl. unripe. Leaves glauc. below.
 19156. *Oplismenus* C. locally. 20-30 cm.
 19219. *Panicum* Ereg. in margins of dryish forest. 40-50 cm.
 20. ? (*Paspalum*?) Grouped in semi-shade on grassy edges of gully forest.
 Stem. Sol. leaf to 18 cm. wide, flat on ground.
 89. *Panicum* C. 30-40 cm. Spreading & ascending.
 19314. *Arac.* O. in open edges. 20 cm. Prophyll yellowish-wh.
 18. *Oplismenus* Ereg. in margins. 40-60 cm. Ascending.
 20. *Syntherisma* Ereg. in grassy edges. 1 m. Fl. purple.
 23. *Polanthes* Perennial. Dry shrubby edges gully forest. 12 cm. high.
 24. *Fern.* Open edges. 120 cm.
 34. *Hymenoph.* Covering moist schist rocks in a ravine. \pm 1 cm.



Iron Range

Rain forest marginal communities

Vines

19065. *Cissampelos*

F. 3-4 m. Fl. green. Fr. red. (3 lobes).

67. *Cissampelos*

3-4 m. Fl. green. Fr. unripe (soft pubescent).

19182. ?

C. up to 15 m. Fl. wh. Fr. unripe

95. *Marattia*

C. (also in upgrowth) to 10 m. Fl. greenish.

19238. *Marattia*

3 m. Green fl.

39. *Cissampelos*

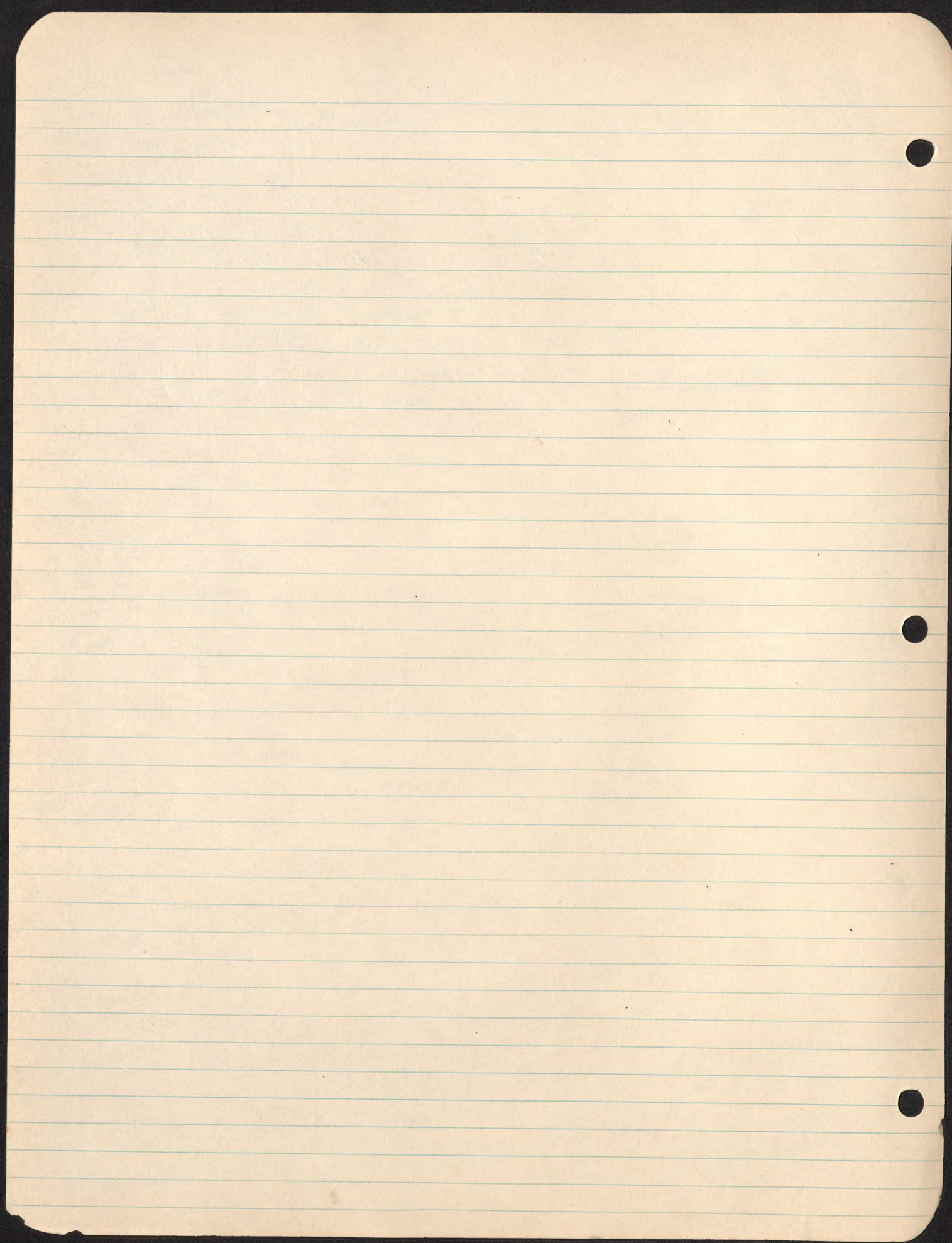
2 m. Fl. greenish, inflated & 5-lobed at base.

68. *Banavalia*

F. to 15 m. (climbing). Fl. pale purple. Fr. unripe.

78. *Banavalia*

Edge of overhanging forest. Tree 12 m x 30 cm. Bark only slightly corky.



Iron Range

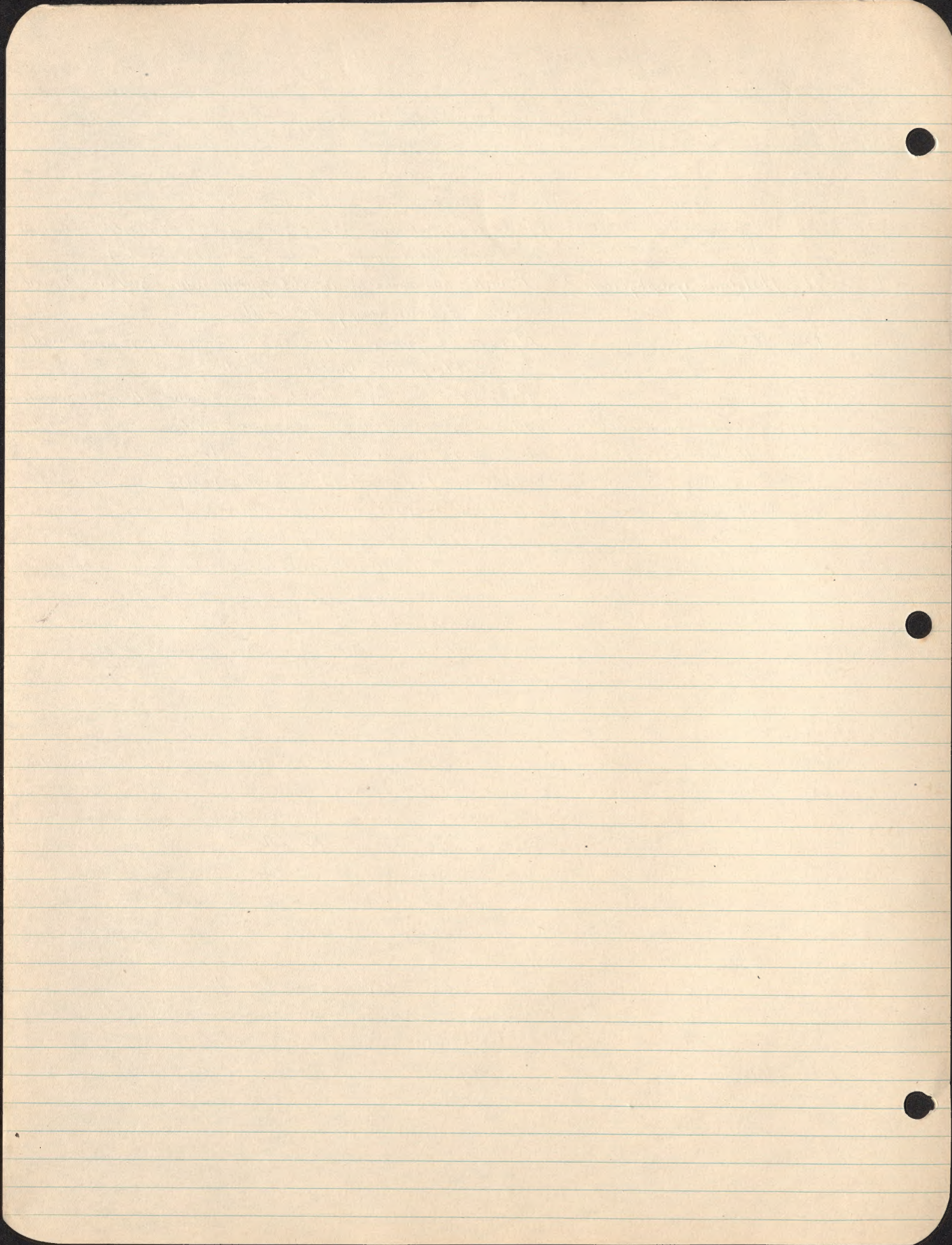
Savanna forest

Trees

19046. *Timonius* F. slender tree 5m. Fls. wh. - fr. ?
82. *Banarima* A. with *Melaleuca* spp. on crest of a quartz ridge 75 m. alt. 4-6 m. Bark rough. (also in Lushington bush). ^{x 15-20 cm.}
91. *Melaleuca nymphyocarpa*? P. with *Banarima* on infertile quartz ridges 8-10m. Fls. red. Bark fibrous, deeply fissured.
95. *Acacia*. A. infertile quartz ridges. 5-7m. Yellow, strongly perfumed fls. in elongated spikes. Pods?
87. *Acacia*. P. in SF. 5-10m. Rough bark. Whitish & red bark. Pods?
99. *Leptospermum fabricii*. A. in grass tree country on quartz ridges. 5-8m. Fls. yellow.
19126. *Alphitonia* F. 8-10m. Leaves very below. Fls. green.
35. *Eucalyptus* (Bloodwood). Principal tree of SF of ridges. 10-25m. Fls. cream.
40. *Xanthospermum crenulatum* F. stony ridges 50m. alt. 10-12m x 20-25m. Fls. only. Thick soft flaky, scaly bark.
19201. *Acacia mangium* Bloodwood SF of red soil ridges. ± 80 m. x 45 cm. Fls. whitish. Leaves \pm glaucous.
03. *Woomia alata* F. on ridges. up to 15m. x 30 cm. Fls. yellow; styles red. Bark reddish-br. shedding in thin papery flakes.
71. *Acacia* F. adjacent to R.P.F. (ridges). 10-12m. x 15-20m. Fragrant yell. fls.

Shrubs

19060. *Grewia*? Near rain forest, where it is a marginal tree ± 10 m. tall.
19125. *Phytolacca* A. ± 1 m. Fls. purple.
34. *Dimorphium* O. on ridges. 1m. Fls. purple.
39. *Aral.* One example 1.2m. Fls. off.
19202. *Grewia* O. in Bloodwood SF of red soil ridges 1m. Fls. ? Fr.
25. ? *Chromola* SF of ridges. 40cm. Fls. wh. to yellow. Leaves stiff.
41. *Hibiscus rhodopetalus* O. in Bloodwood SF of ridges. 30-40cm. Fls. rose.
42. *Tephrosia* " " " 2.5m. Fls. reddish-purple.
54. *Strobilidium* F. in SF adjacent to R.P.F. 2m. Fls. off.
60. *Euph.* Abundantly scattered & forming thickets adjacent to R.P.F. ± 2 m. Fls. black, fleshy.
61. *Flueggea* F. adjacent to R.P.F. ± 2 m. Fls. wh. Fr. wh.
72. *Euphorbia* ~~O. in grass~~



Iron Range

Savanna forest

Grasses

19191.

O. stony soil. 30 cm.

37.

A. on an ironstone ^{bed} ~~road~~, 60-80 cm.

19227. *Eriopogon*

Muddy bed of a stream. 60-80 cm.

30. *Andropogon*

F. \pm 2 m. Clumps of numerous small culms.

Trees, cont.

19274. *Timonius Rumphii*.

C. adjacent S.P.T. 6-8 m x up to 25 cm. ^{Bank on steep bank.} Fls. cream.

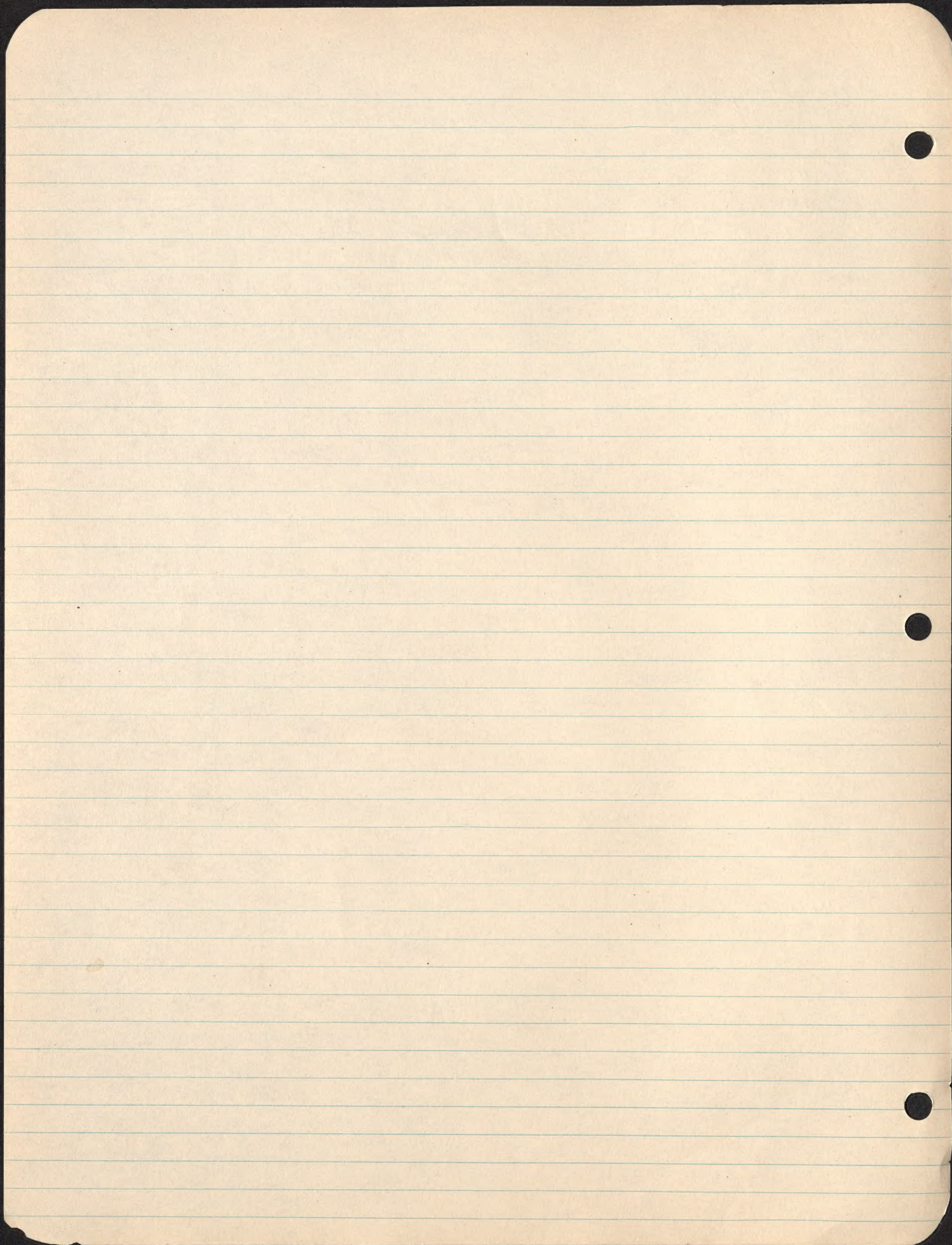
19312. *Pandanus*

Scattered, or grove in groves on fls. 5-7 m. ^{See label.}

Ferns

19228. *Polypodium*

C. muddy bed of a stream. 20-30 cm.



Iron Range

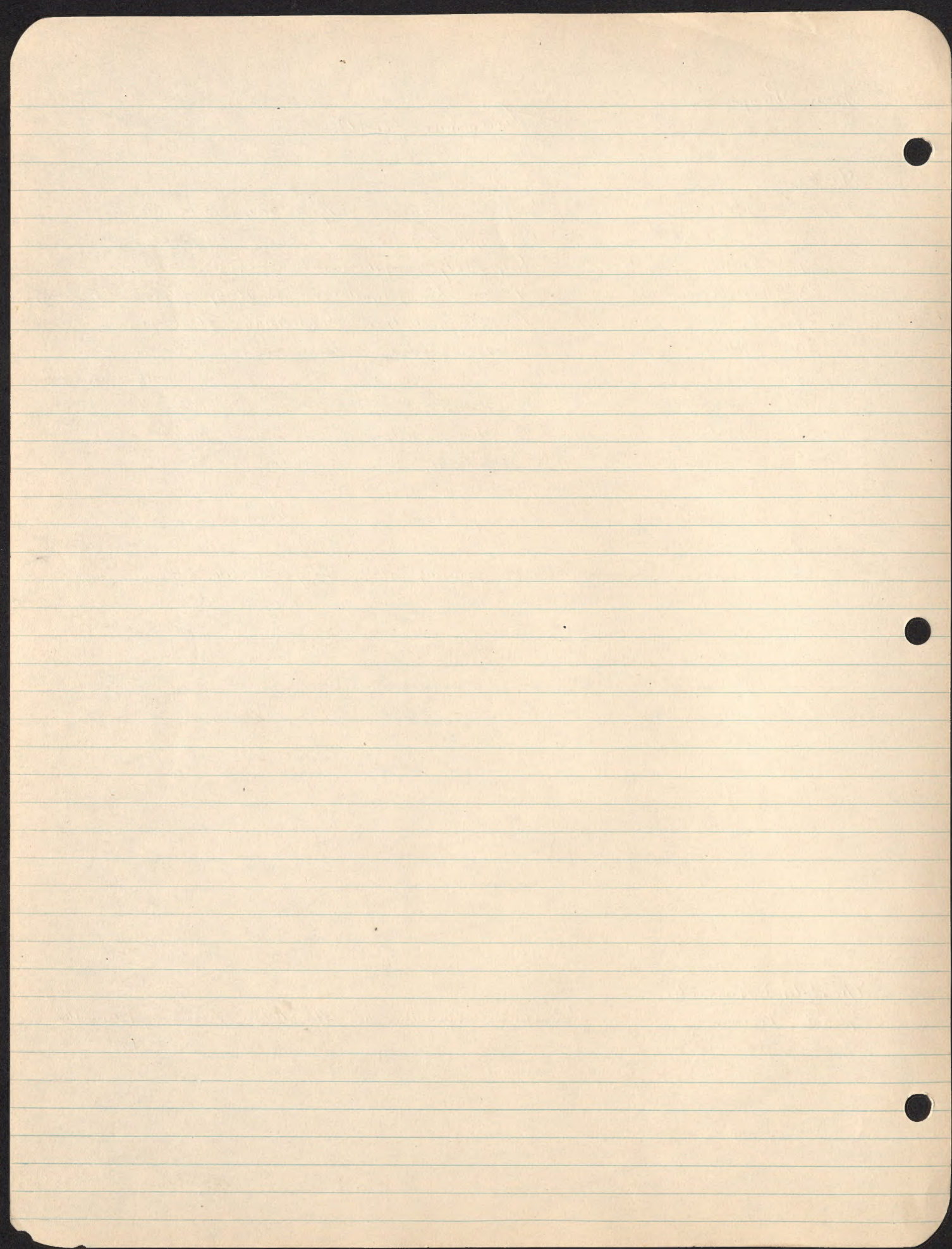
Savanna forest

Herbs

19100. *Glechoma*. Ereg. in a shrubby gully a ridge 75 m. 30-40 cm. Stiff
07. *Obolobis chinensis* Amongst long grass. 70-80 cm. Fls. purple.
27. *Bom* Ereg. locally amongst grasses 20-40 cm.
28. *Ponidium* F. in thin ground cover on stony ridges. Fls. orange.
29. *Bom* F. stony ridges. Subprostrate. Fls. blue
30. *Rub* F. stony ridges. Tuces 40-80 cm. Fls. purple.
32. *Arch* S. " 25-50 cm. Fls. green with orange tinge
33. Scattered " 10-15 cm. Fls. white
36. *Polygal* O. stony ridges. 15-50 cm. Fls. purplish
38. *Dianella* Ereg. locally " 60-100 cm. Fls. blue
19218. *Isotria* muddy bottom of a stream. 15-20 cm.
22. *Isotria* Sandy moist bank of a stream. 15-90 cm. Fls. violet. Fls. by
23. *Thermacoe* C. in moss mat S of ridges. 5-50 cm. Fls. lavender.
26. *Troph* Shallow muddy soil of a rocky creek bed. 20 cm. Fls. purp.-wh. Fls. by
27. *Polygal* C. locally. 25-50 cm. Fls. purplish.
31. *Rub* Open rocky stream bed. 20-30 cm. Fls. wh.
32. *Rub* " " Subprostrate. Fls. wh.
69. *Polygal* S. quartz ridges 60 m. alt. 30-60 cm. Fls. greenish.
19313. *Bom* F in long grass. 30-60 cm.

Epiphytes & parasites

19083. *Viscum* Parasitic on *Loranthus* sp. Fls. globose, yellowish, & num. div.
19805. *Myrmecodia* C. on trees 20-50 cm. Fls. wh. See label
25. *Loranthus* Fls. red & yellow.



Bron Range

Turkey bush

Trees

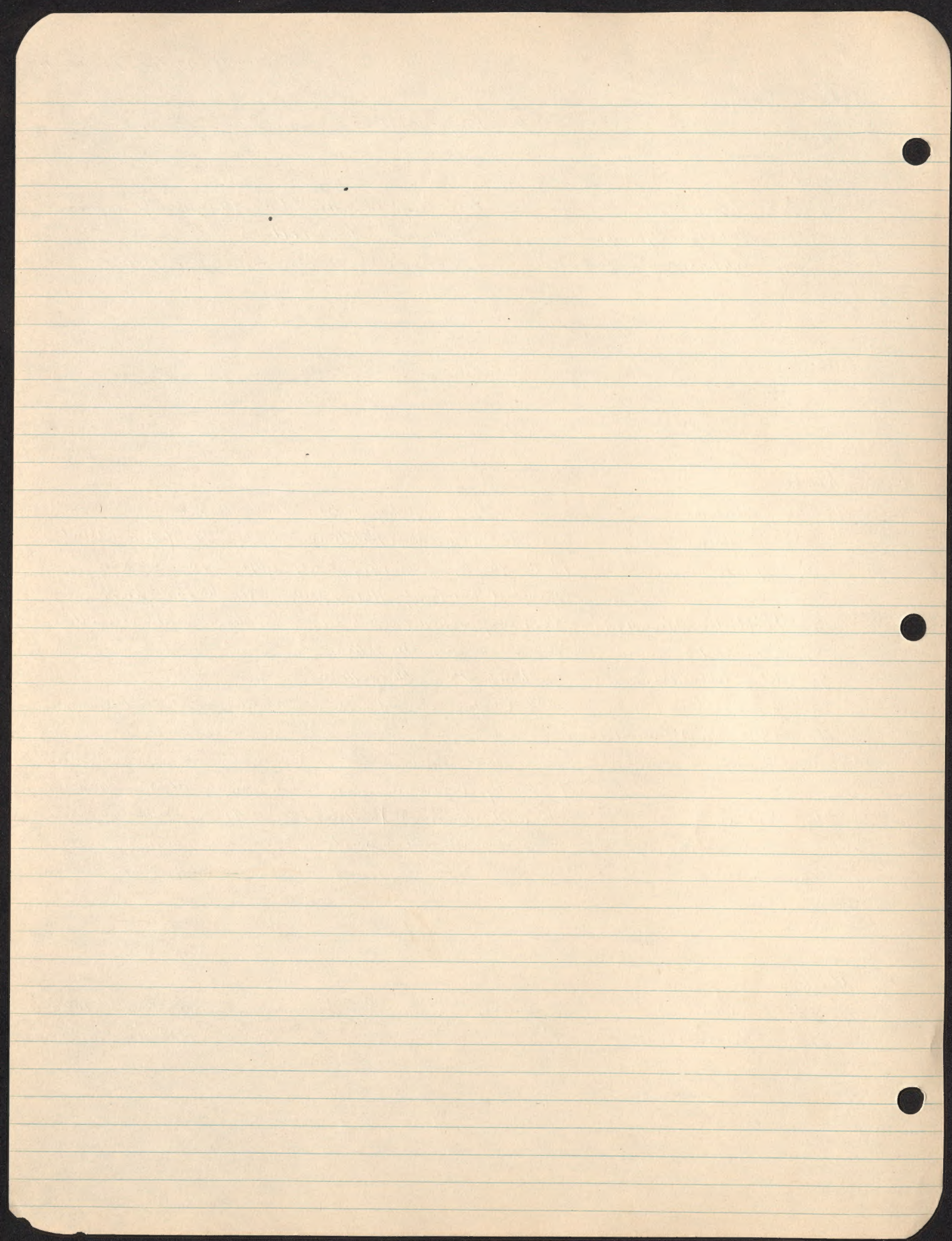
19082. *Casearia*. Tree, rough barked, 4-6 m. (4 in nearby savanna).
 91. *Mel. myrsinacea*? Small tree. Fls. red. " " "
 99. *Leptospermum fatricia* A. in grass tree community. Fls. yellow.

Shrubs

19084. *Santalum*. S. on infertile quartz ridge. 1 m. Fls. yellow.
 85. *Godonaea* O. with *Casearia* & *Palaleuca* ... 1.5-3 m. (Tree or shrub)
 86. *Jacksonia* P. in shrubby growths; quartz ridge. \pm 1 m. Densely branched & usually flat-topped. Fls. purplish-pink.
 87. *Hibbertia Banksii*? Forming small thickets. 1-2 m. Leaves broad. Fls. yellow
 88. *Gompholobium* O. 40-60 cm. Fls. yellow
 90. Like *Procanthosmum* Shrub ~~fls.~~ Fls. yellow.
 94. *Xanthorrhoea* A major element. Up to 2 m. total height. Old fls. spikes.
 98. *Morinda reticulata* S. 40-50 m. Branches wh. above, greenish below. Often ~~with~~
 19101. *Argonis* "Turkey bush leaves." This & *Xanthorrhoea* the principal elements of shrubby communities on infertile quartz ridges. Fls. white.
 04. *Acacia* A. with *Argonis* & *Xanthorrhoea*. 75-150 m. Branchlets much compressed. Fls. whitish. Thy. slender & glaucous.
 19272. *Euphorbia*. O. in *Argonis* scrub. Bushy, 30-40 cm. Fls. orange-yell. fls.
 73. ~~Shrub.~~

Herbs

19092. *Brickellia*. S. amongst shrubs & *Xanthorrhoea* on infertile quartz ridge. Pink fls.
 93. *Spermacoce*? P. " " " " 30-40 cm. Fls. violet



Iron Range

Turkey bush

Erann

19088. *Aristida*

C. on infertile quartz ridge. Large open clumps ± 50 cm.

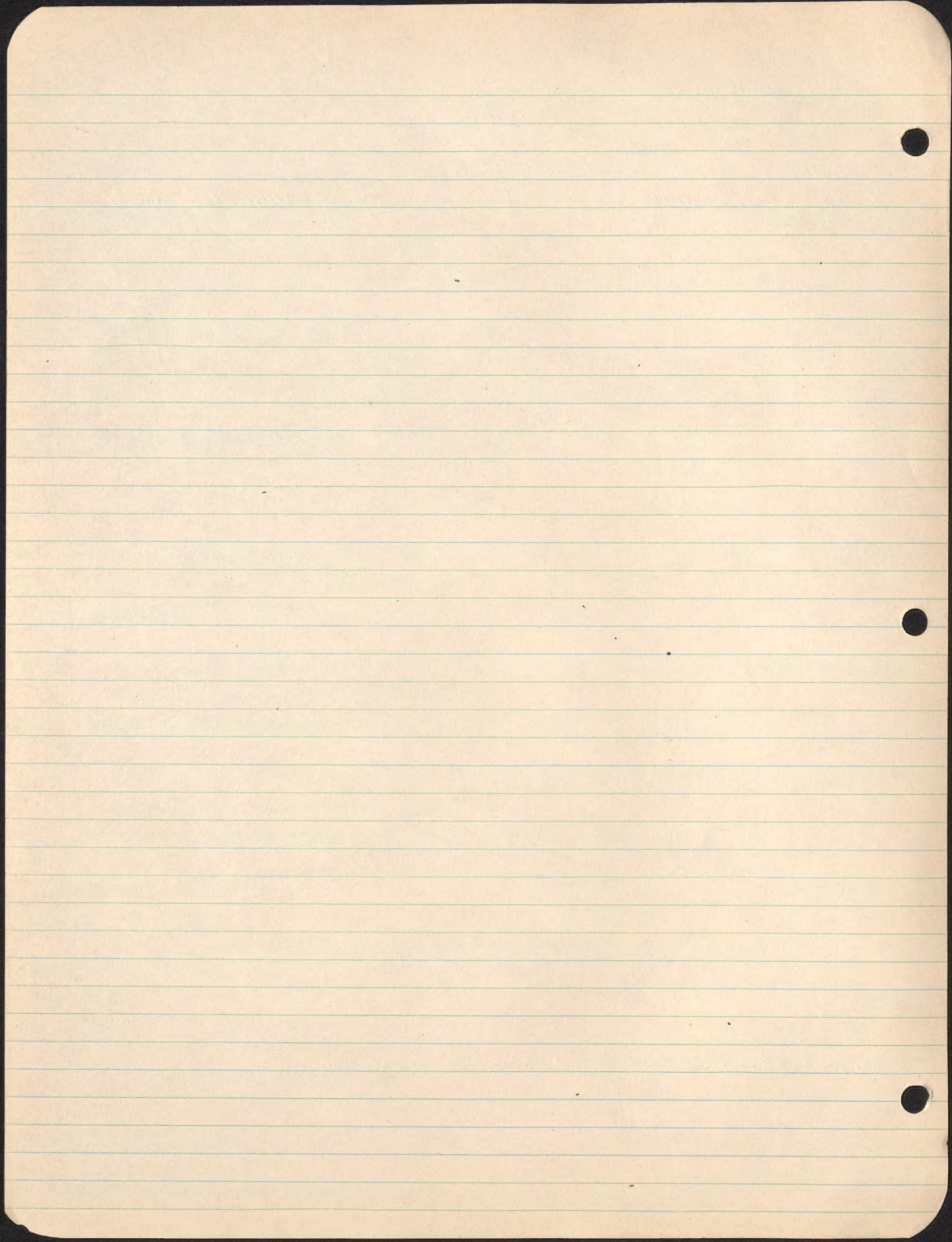
19270. *Eragrostis*

♂ " " " 20-30 cm.

Paranitis

19103. *Panicum*

On shrubs. Fls. yellow.



Iran Range

Water plants

19076. *Hydrocharis*.

In a still pool in a rain forest stream. Br.-green.

77 ?

Submerged in a quiet sunny pool in RF stream. Green

78. *Wittia Tonderi* Braun.

"

"

"

"

"

Green

79. *Phaca gymnopitys* Braun.

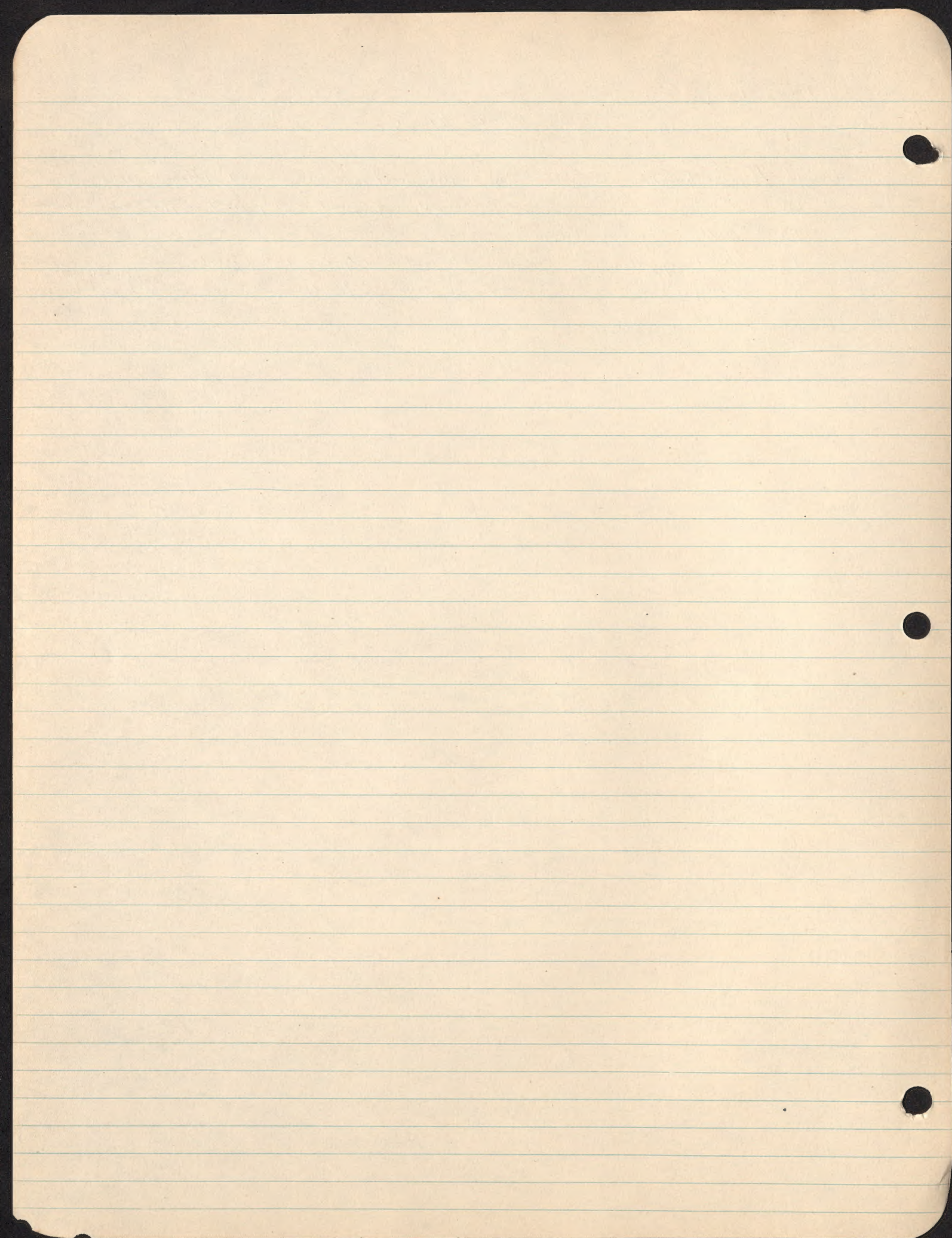
Marred in edges of sunny pools " " " "

Green

80. *Sphenopetalum*?

P. in sunny pools " " " "

shrub-like
only 1 ft. above water



Tozer Gap Camp
excluding Tozer Range & Mt. Tozer.

100 m. = 300 ft.

Rain forest

Rain forest marginal communities.

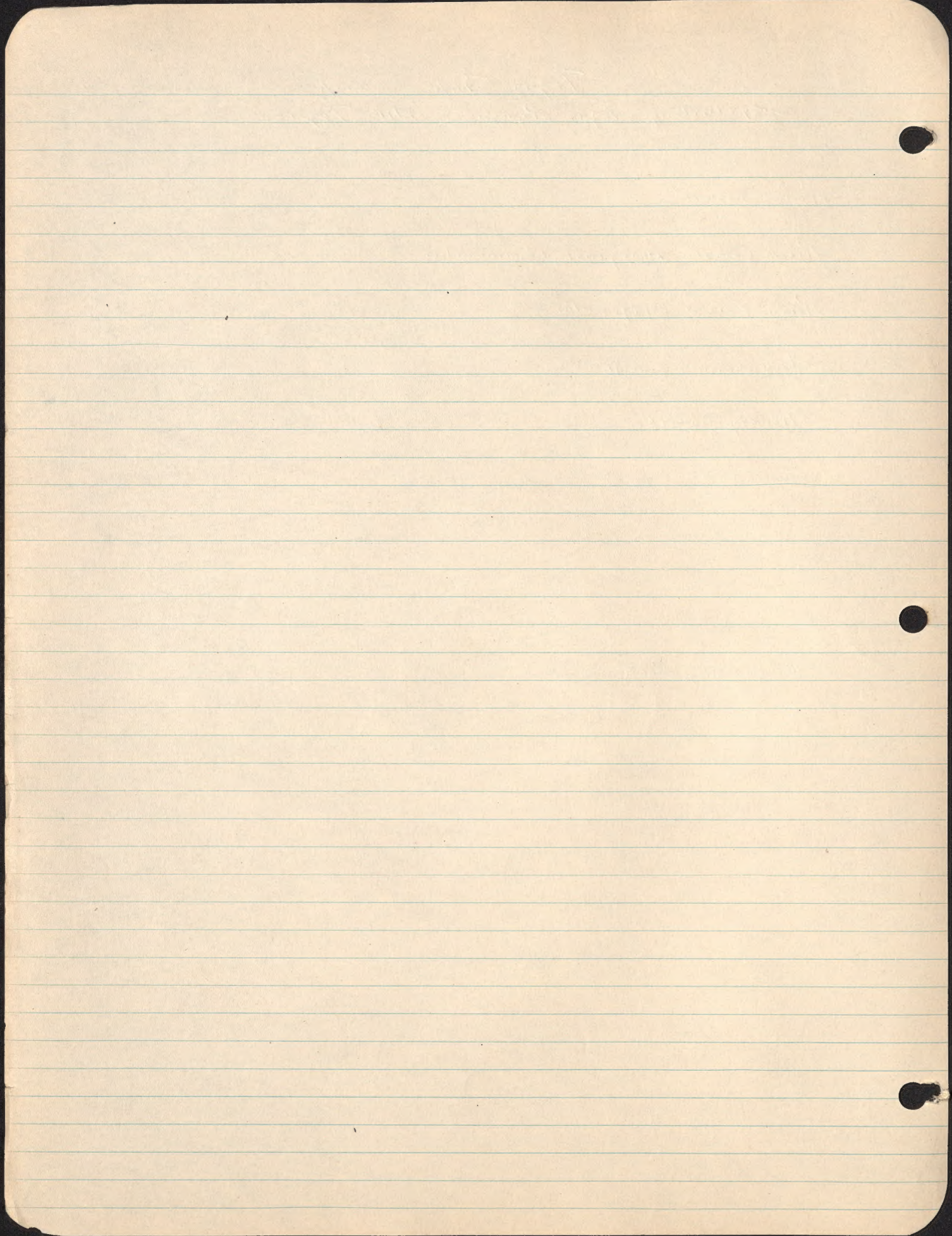
Rain forest reprints

Savanna forest

Turkey bush.

Floodbanks of creek in rocky gorge.

Puffblowey Peak



Tozu Gap Camp.

Pain fensi

Trees, canopy

19607. *Callicarpus* P. Rocky sides of gorge 60m. To 20m x 35cm. Bark grey, fibrous.

19579. *Xanthoxylum* ^{*chrysanthum*} f. pally woods. 10-15m x 30cm. Fl. fr. yellow.

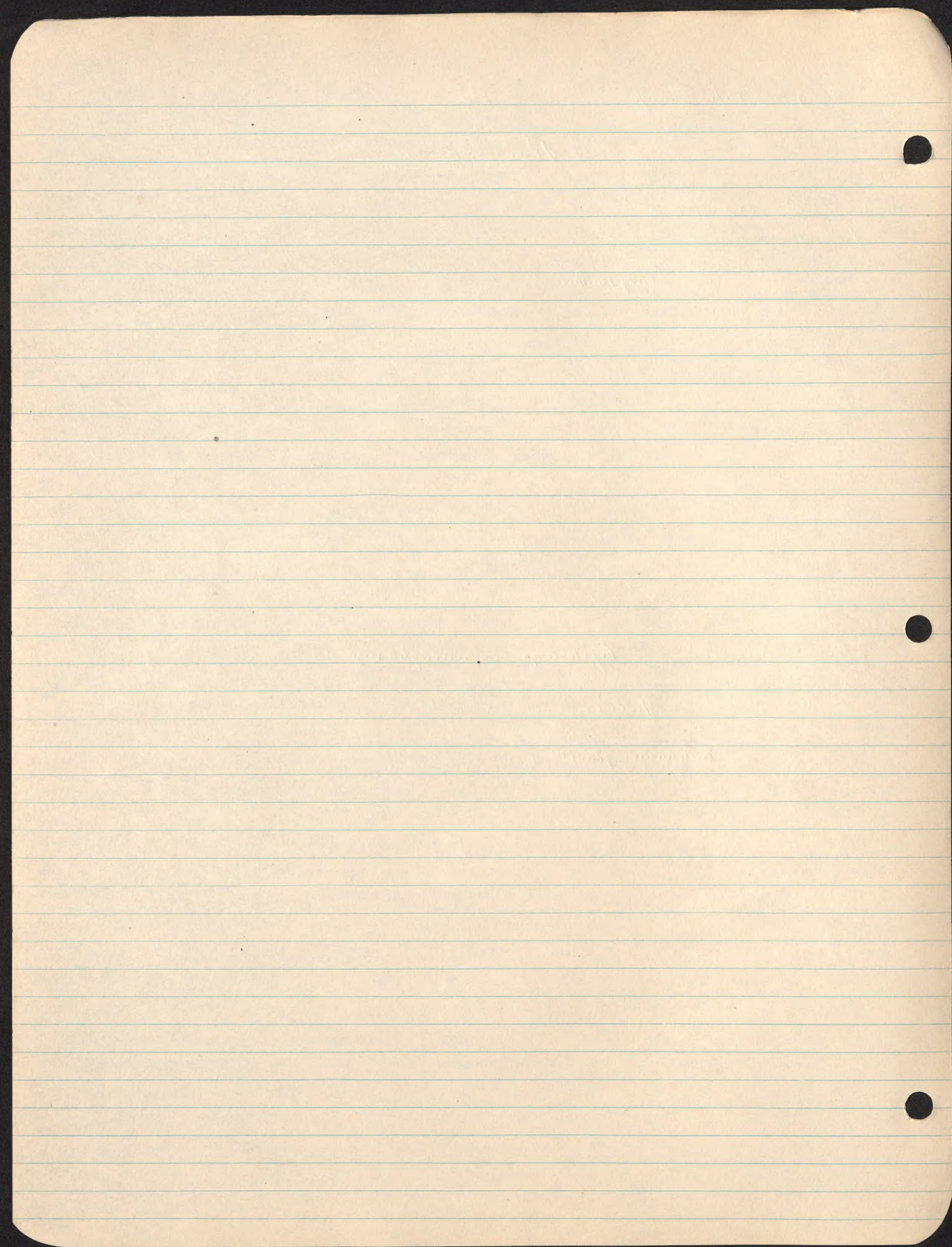
Trees, subshrubby *Tryptocarpus cunninghamii*

19633. *Cinnamomum* 15m x 20cm. Fl. buds only. Wood smelling like *Boconus* oil.

38. *Wurmbachia laevis* 15 x 20 cm. Fl. ? Fl. immatures.

58. *Podocarpus* ~~C.~~

19562. *Indriandra* ^{*Indriandra*} *planch* C. in *pan fensi* on rocky slopes, 6-8m. Fl. & fr.



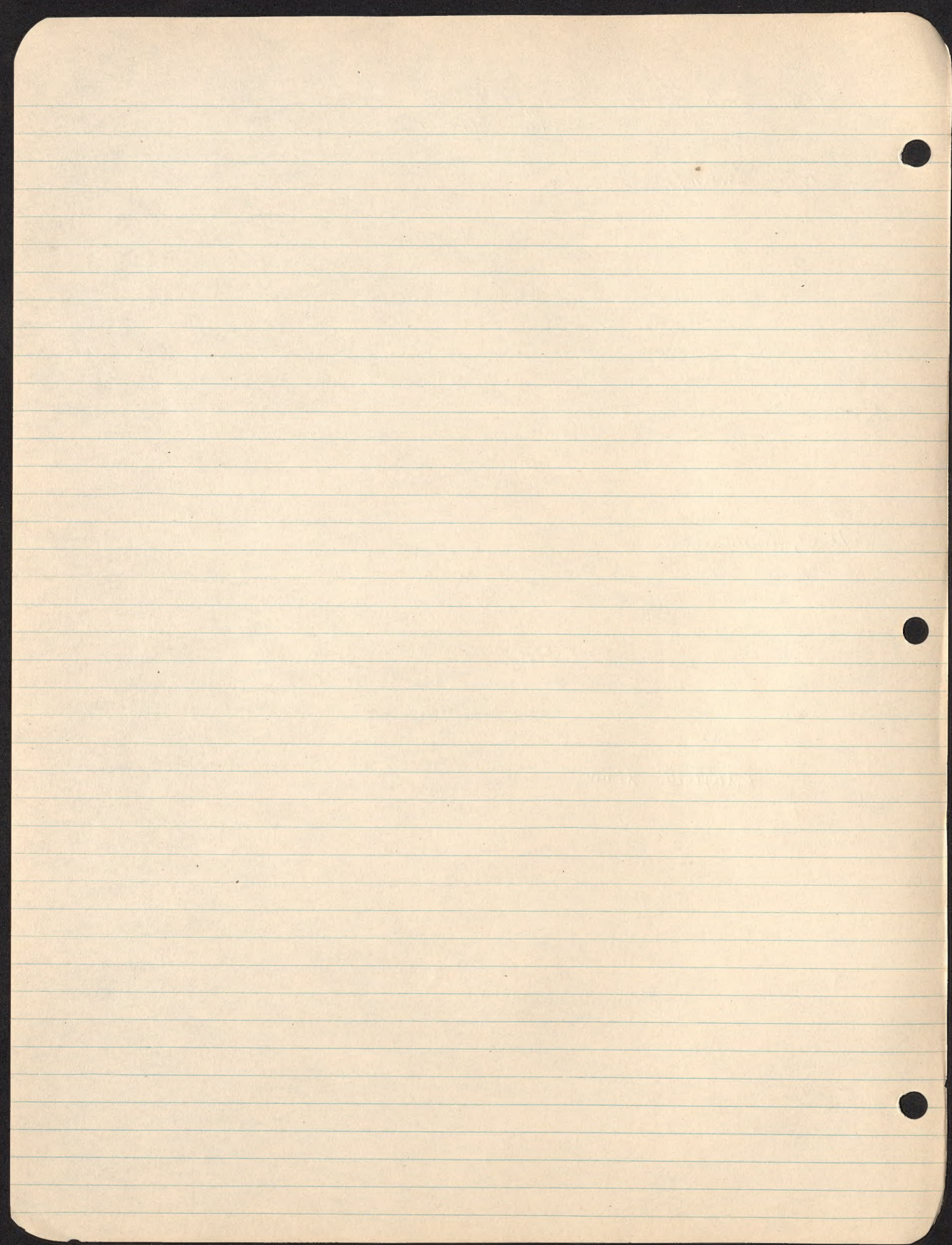
Pozu Sap Camp

Rain forest

Tree, natiops

Woody undergrowth

- | | |
|---------------------------------------|--|
| 19344. Rapanea | Shrub 2m. Fl. ? Fl. wh. |
| 80. Moeh. | O. in gullies. Shrub 4m. Fl. wh. (Also Puffblowing Bush) |
| 19406. Nephrolepis ? | Treelet 2m. Fl. ? Fl. unripe |
| 39. ? | Tree 3m. Fl. green Fl. ? |
| 43. Croton | F. Shrub 2m. Fl. wh. Fl. ? |
| 49. ? | Very slender tree 2-4m. Fl. gr. St and yr. fl. 2-2.6cm. dia. |
| 19503. Ural. | F in gallery woods. Shrub 1.5-2m. Fl. yellow. Petioles orange. |
| 20. Uncasand?
Euphorbia | O. tree or shrub 2.5-3m. Fl. cream. Large pinnate leaves. |



Town Gap Camp

"Rain forest"

Herbaceous undergrowth

19374. *Ophiorhiza*.

Ereg. small colonies in a R.F. July. 50-60 cm. Fls. wh.

75. *Sam.*

Ereg. open sandy banks of a stream. Grooping; 80 cm.

19408. *Boca byssocarpa*

$\frac{1}{2}$ shade on rocky sides of gorge. Fl. only. Fibrous roots.

like. Fern.

With stph. nodules on rocky slopes. Erect; fleshy 50-80 cm.

45

Ereg. slopes of a ravine. Tufts 60-80 cm.

46. *Hymenoph.*

Covering granite rocks 3-3.5 cm.

Eph. lpha 50.

Reversing bases of trees on stream bank. Leaves 1 cm.

Eph. " 51. Grch.

Matted on rocks. 1.5 cm. Fls. wh.

Vines

19432. *Wpoc.*

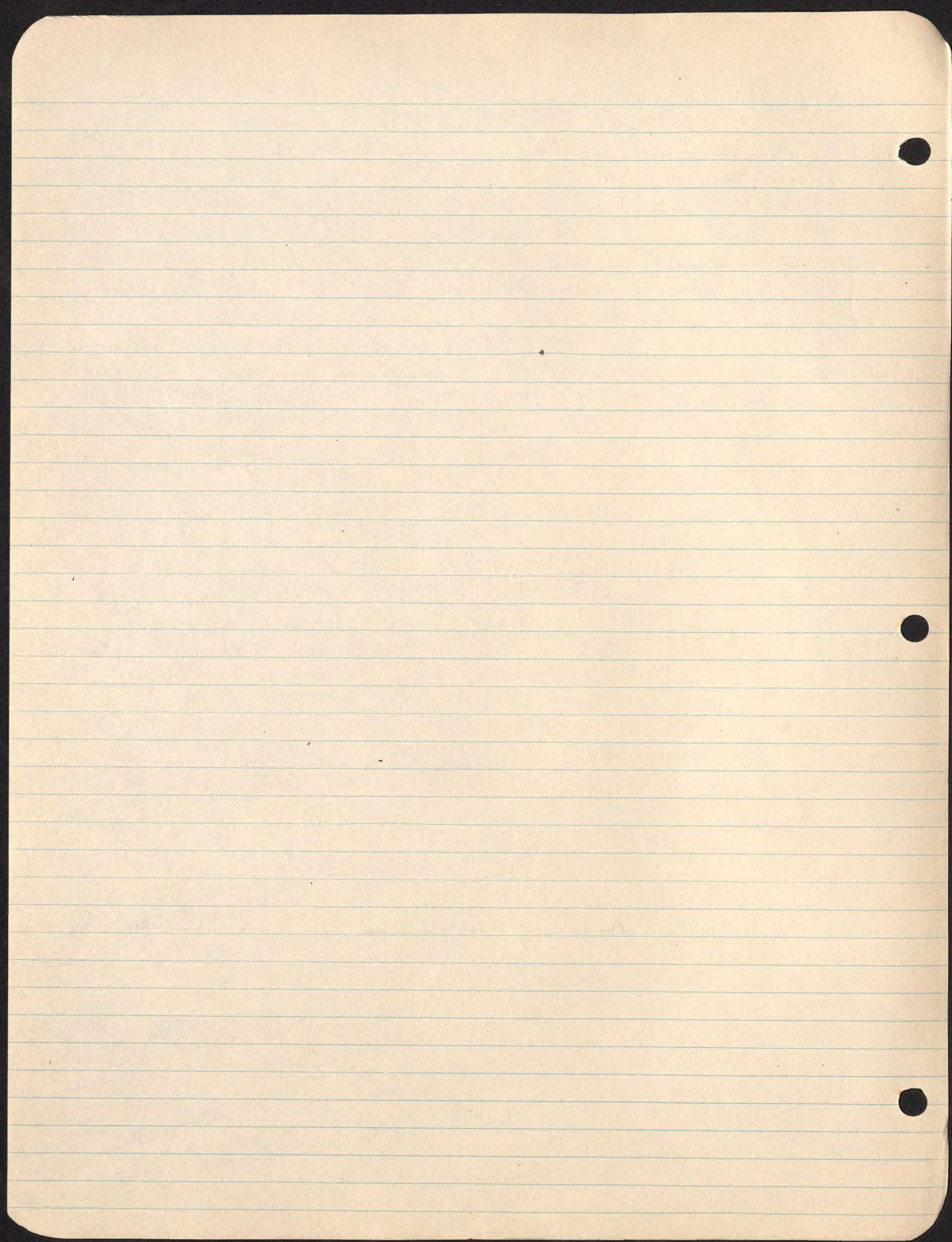
Barbly liana 20 m. Fls. G.-white. Foliolate br., hard, not w/ wood.

47. *Koya*

One example bank of a stream. 8 m. Corolla blackish-purple, 8-8.5 cm. dia.

19504. *Munish.*

"Vine-vine" of poor R.F. & looking fresh. 3 m. Fls.



Toger Gap Camp.

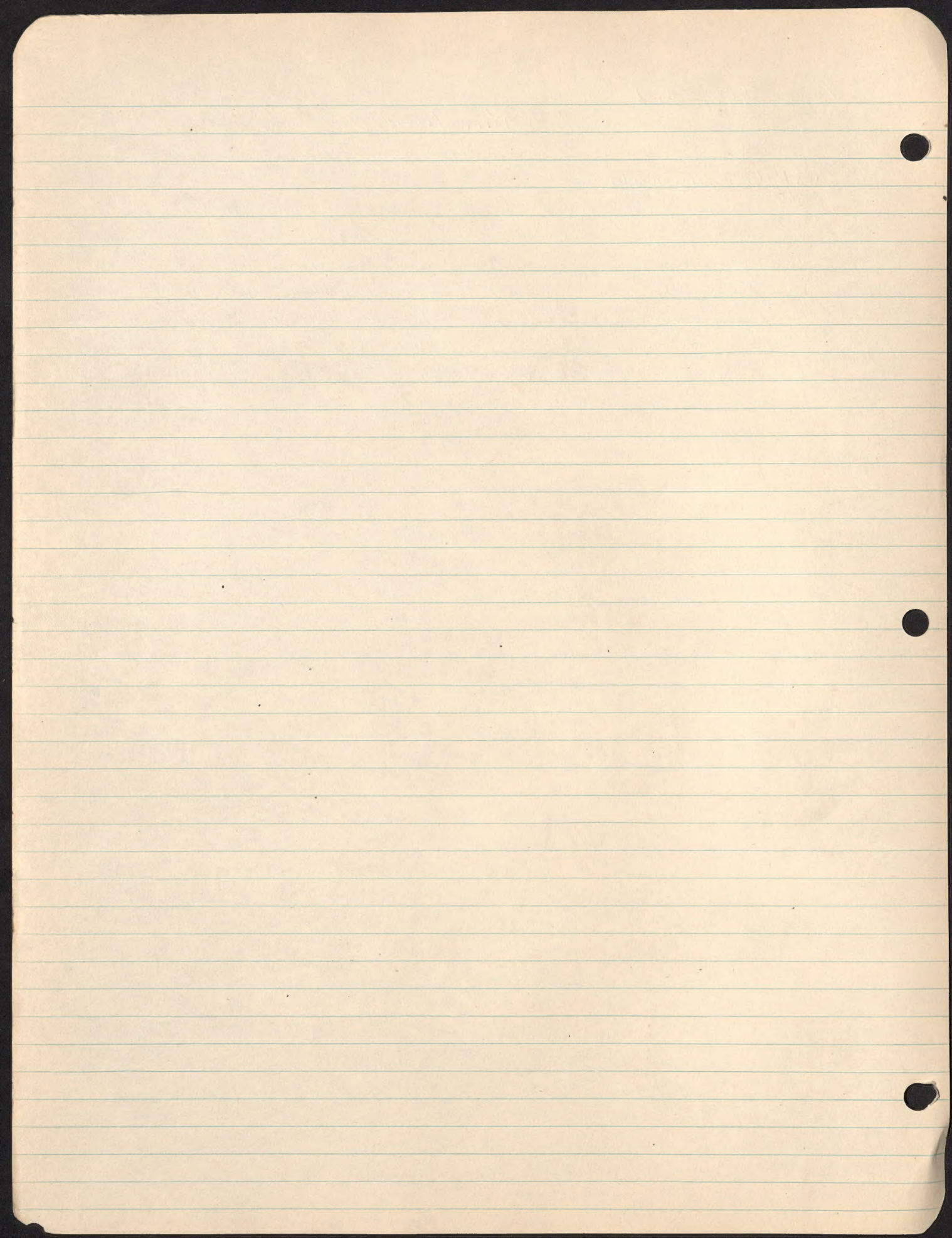
Rain forest

Epiphytes & parasites

19377. Orch. *Leptocarpus* sp. 1 cm. on an a. p. shrub. Fl. pale green.
 19442. Orch. *Leptocarpus* on trees. Fl. purplish-red & emerald green. *Stem yellow.*
 48. *Gelophanes* on a log. Dark glossy green. up to 13 cm.
 50. *Hymenoph.* Covering bases of trees by a stream. Under 1 m.
 19511. *Sundrobium* Large masses high in trees. 40 cm. Fl. whit. yr. mottled & streaked with red.
 26. *Orch.* *O. low epiphyte.*

Mosses

19382. On dead wood.
 83. *A. ^{Gross} ~~leaves~~* of trees & on dead wood.
 84. Dead logs.
 85. Rotting logs.
 19440. Trunk of a living tree.
 54. Wet rocks in bed of a stream
 55. Lower trunks of trees
 56. Living stones in a stream
 57.



Tozer Range & Mt. Tozer

Rain forest of slopes

Tree

Woody undergrowth

Herbaceous undergrowth

19367. 28 Camb.

68

"

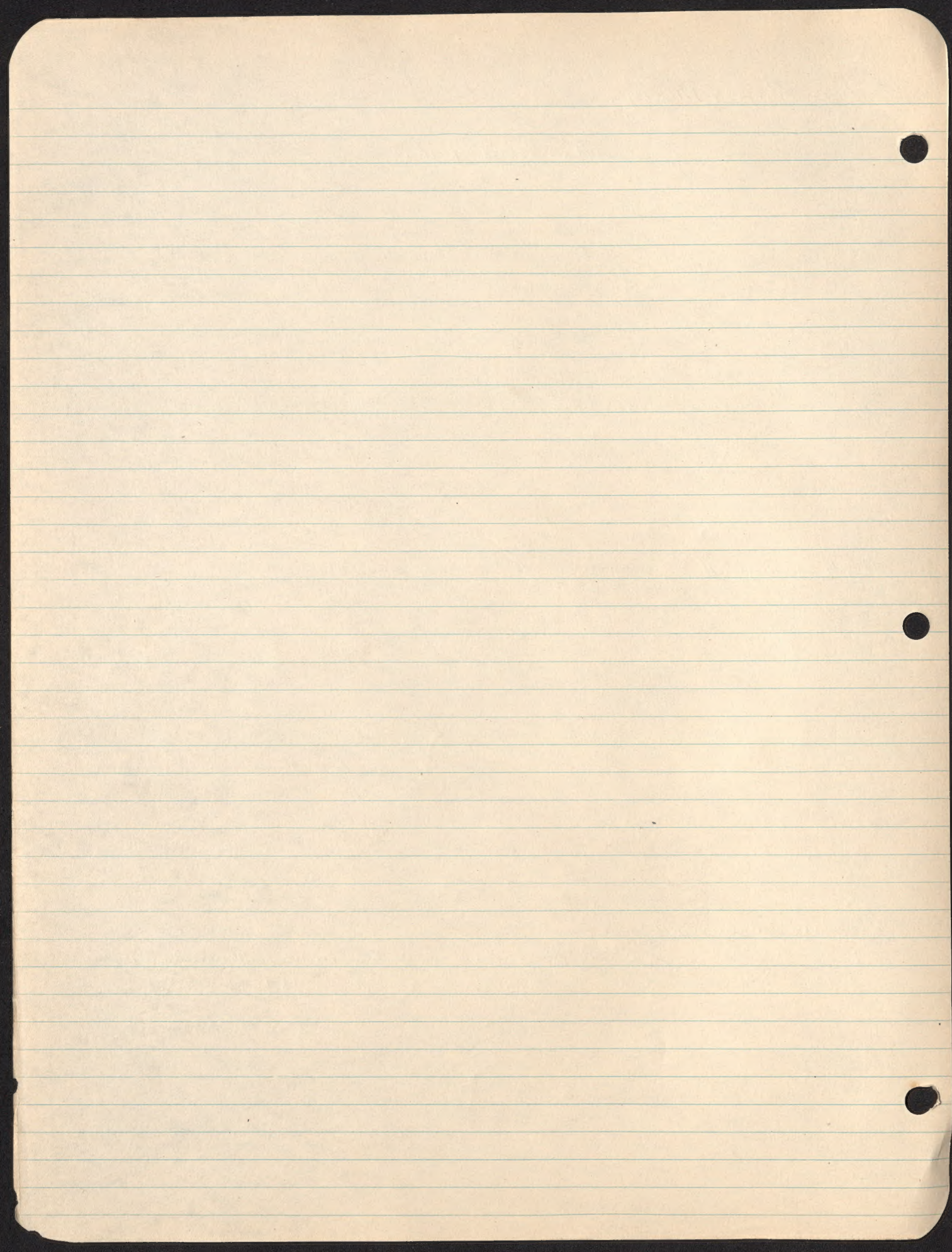
Brushy 1st 200 m. 60-80 cm. Fls. wh. mottled purplish. Ascending.

"

"

"

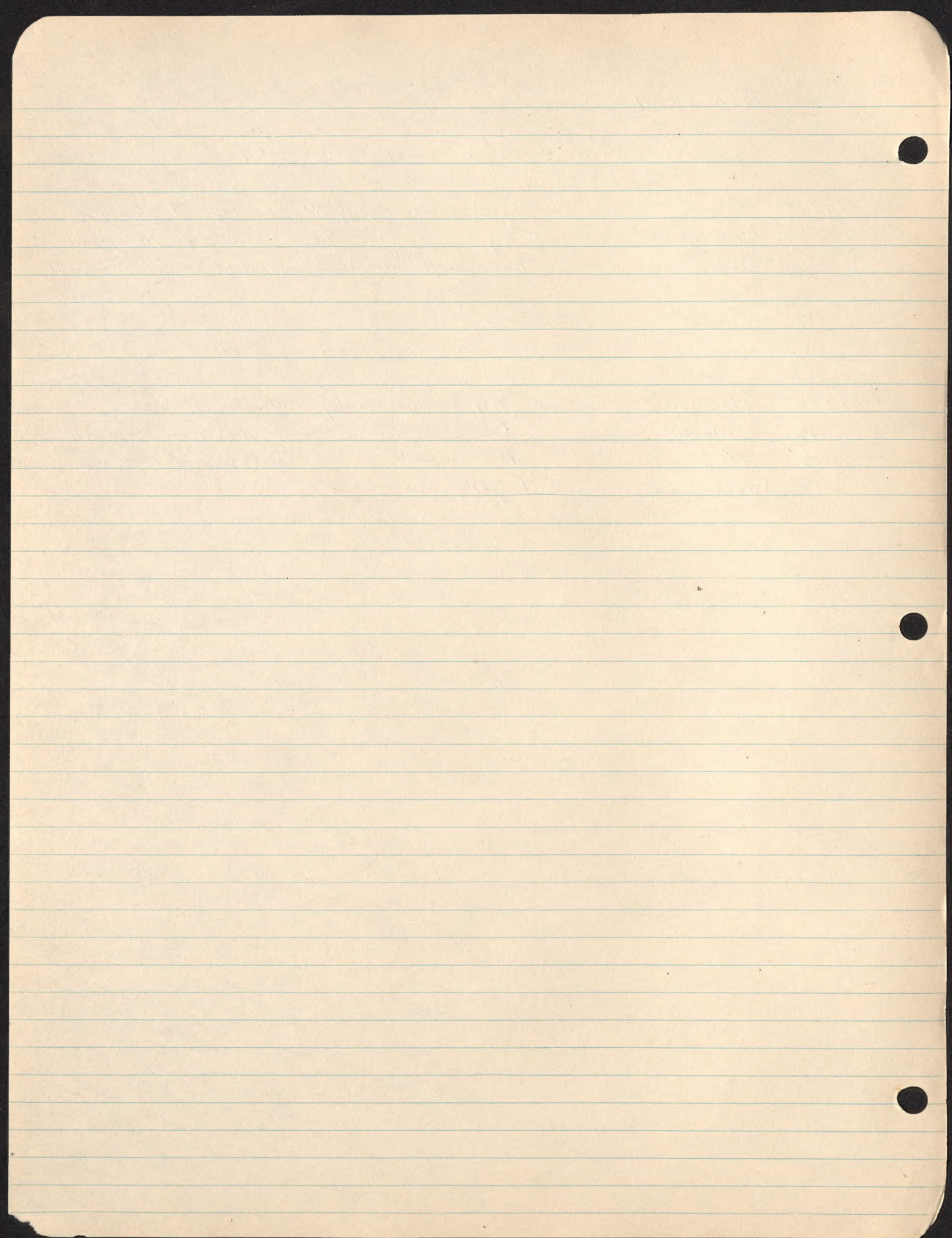
60-110 m. Fls. purplish-wh. Fringe 6, red.



Texas Gap Camp

Rain forest marginal communities

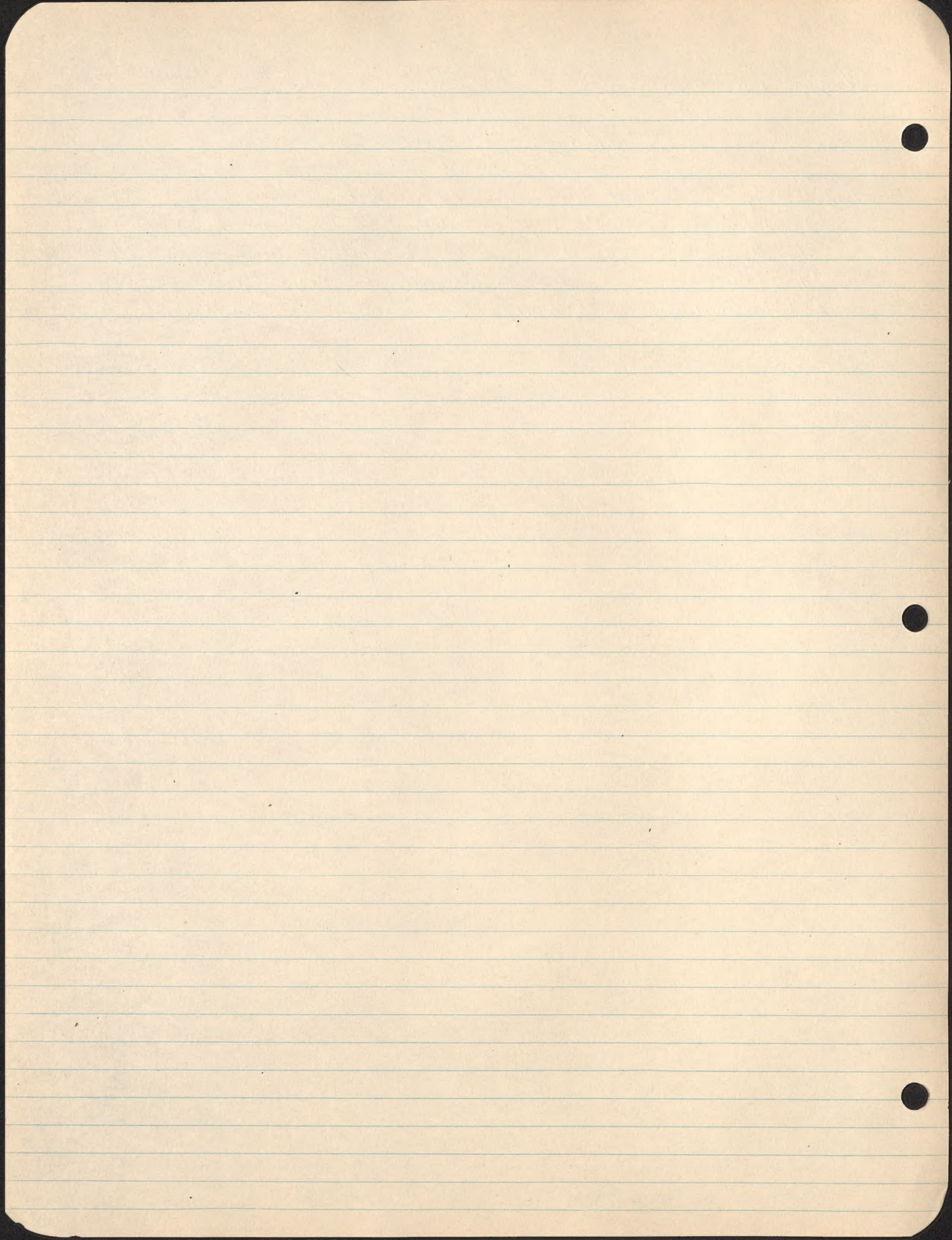
19338. *Alcantara*. Shrubby border of jungle R.F. Shrub 5 m. Fl. wh. with pink spot
39. *Hibiscus* Eng. " " R.F. Shrub 50-80 cm. Fl. pale yellow.
40. *Passiflora*? D. in dense ^{border} shrubbery. Shrub 1.5-2 m. Fls. deep violet.
70. *Alcantara*. F. in brushy jungle. 50-80 cm. Fls. pinkish. ^{Fls. in clusters} Erect simple stems.
78. *Schinus* Eng. " " 80-140 cm. Fls. white.
79. *Tycopteris* C. R.F. edges. Climbing 4-5 m.
81. *Pisonia* Edges of jungle fringing R.F. 30-60 cm.
19516. *Gleichenia* Eng. in edges, gallery woods. 40-50 cm.
17. *Hedyotis* O " " " Shrub 60-80 cm. Leaves fleshy.
18. *Rubus* F. " " " Shrub 1.5 m. Fls. wh.
~~19. *Xanthostemma* F. gallery woods~~



Tegen Gap Camp.

Rain forest regrowth.

- | | |
|-------------|--|
| 19434. Leg. | F. vine 2 m. Fl. pale purple. Bracts green. |
| 35. Pipitum | 18 major constituent. Tree 6-8 m. Fls. wh. |
| 36. Leg. | Vine 6-8 m. Fl. yellow. Fruits metallic blue. Plant forest |
| 37. Conn. | F. vine 2-3 m. Fls. dirty white. |
| 41. Commel. | C. locally. Herb 30-50 cm. Fls. purplish-wh. |



Tozen Sup. Camp.

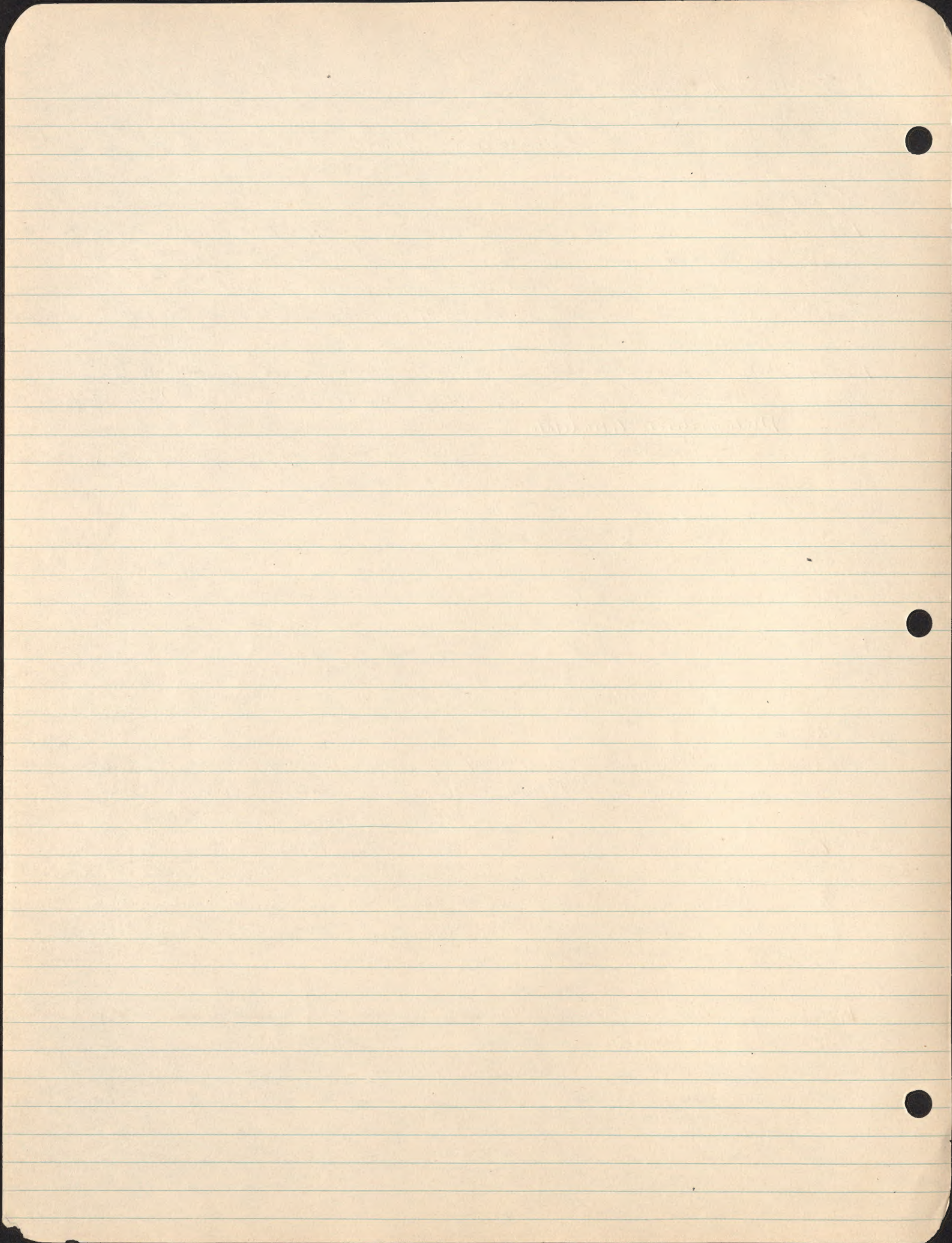
Savanna forest

Trees

19418. *Persea* F. on sandy ridges. 6-7m. Fls. yellow. Leaves ± glaucous.
 98. *Acacia* cf. *A. Peuce*. O. on rocky ground. 5-8m. Fls. ? Pct. Leaves glaucous; hard rough deeply fissured lv. bark.
 19513. *Leplanchia* F. on stony ridges. 7-15m. X up to 35m. Fls. yellow.
 21. *Tournefortia* One example. 6m. Fls.
 19027. *Mel. leuc. var.* C. in poor st. Very poor bark. Fls. pale red. 6-8m.
 19167. *Xanthoxylum* ? Sandy bed of a creek (really a R.F. sp.?). Fls. wh. (10x15m).
Miconidorea tetrapetala

Shrubs

19489. cf. *Trocantherum*. C. in shrubby v.g. 40-60m. Dying yellow fls. ^{from thick} ^{dark} brown with a long
 19500. *Gompholobium* P. locally in shrublands, 50-120m. Fls. yellow & green
 22. *Santal.* O. in shrubby st. ± 1m. (also 7 1/2').
 05. *Phyllanthus* C. in shrubby st. 1m. Fls. wh. Leaves ± glaucous.
 09. *Legum.* Local " " 60-100m. Fls. yellow. Simple or little branched.
 10. *Acacia* P. locally " " 1-1.20m. Upright; branches flattened
 14. *Myrsine minor* C. bushy edges of grassland 1-1.5m. Fls. of P & F with strong musky smell.
 19024. *Gibbula* P. in shrubby v.g. 30-40cm; much branched. Fls. pale yellow.
 25. *Proinde stipitata* 40cm.
 28. *Agave* Principal element in shrubby v.g. 1-1.5m.
 30. *Gibbula* P. shrubby v.g. 1m. Fls. yellow; leaves brownish below. Bark:



Togo Gap. Tamp.

Savanna forest

Grasses

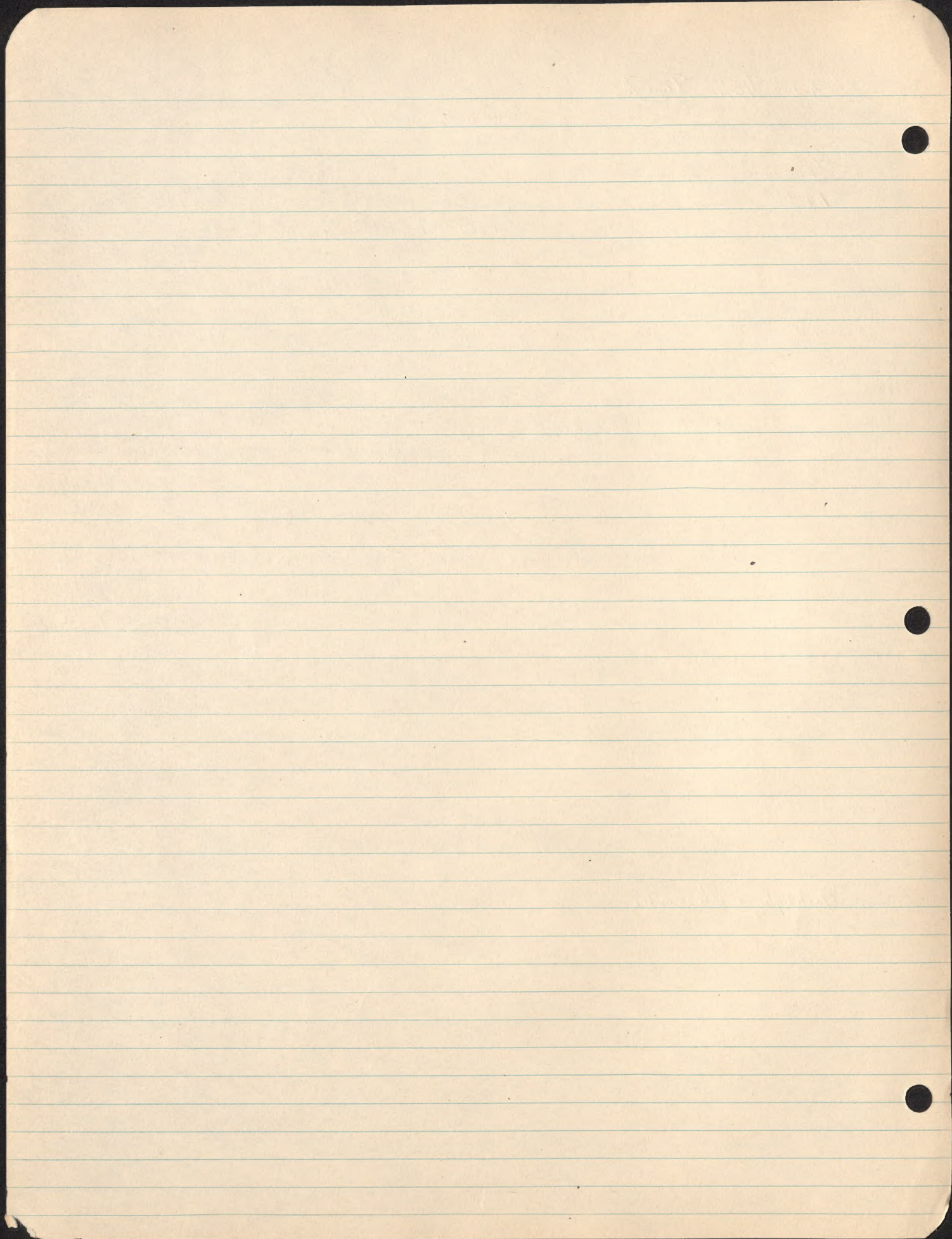
19336. *Panicum*

Moist brushy banks of a gully. Ascending, 1 m.

194123. *Sarcocolla*

Shaded wet banks of a stream. 25 m.

Epiphytes & Parasites



Tozer Gap Camp

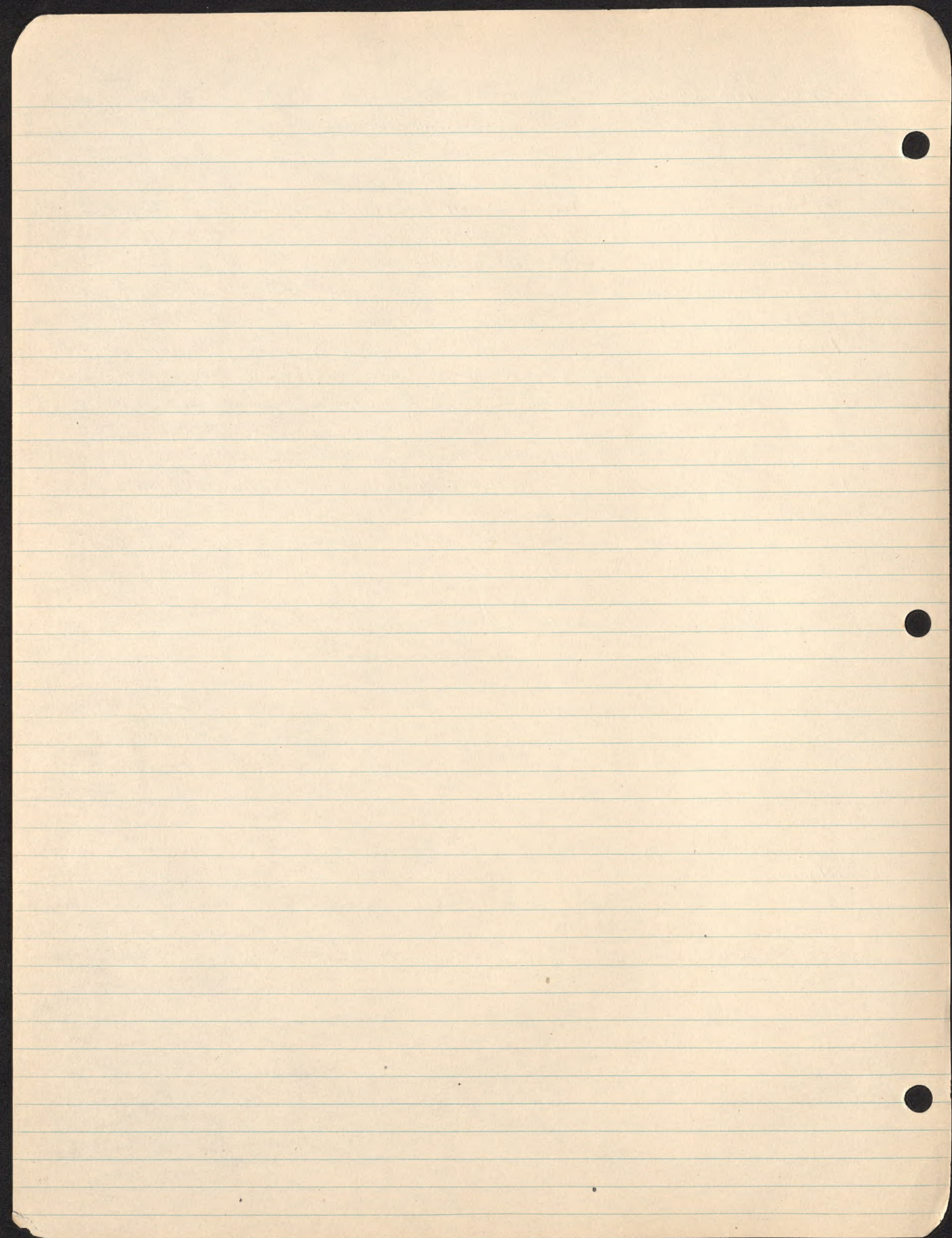
Savanna forest

Herbs

19385. *Valleia* ^{granata} Erog. on small ~~low~~ patches in sandy st. Fl. yellow.
 40. *Lil.* A. locally sandy st. 60-80 cm. Fl. yellow.
 41. *Helipinella* Moist shaded river banks 5-8 cm.
 54. *Sparks glori* One plant in a swampy gully. 130 cm. Fl. pale magenta
 73. *Lob.* Fl. violet.
 19419. *Calceolaria* Moist shrubby edges of a gully. 25 cm. Fl. red. Saffron.
 20. *Browna* S. in a moist bottom. 25-45 cm. Fl. wh. later pink.
 21. *Anticarsia* Moist open banks of a gully. 4-10 cm. Fl. yellow. Sepals red. G.
 22. " C. " " " 4-20 cm Fl. pinkish wh. Sepals ^{blue-yr.} red. G.
 29. *Moss* On ground where logs had become
 19507. *Polypod.* C. locally in shelter on rocky ridges. Mostly herb 5-150 cm.
~~07.~~ Fl. cream. Leaves very green.
 08. " O. in st. 60-70 cm. Fl. purple & wh. (C. on tip).
 15. *Hydrilium* Wet banks of a gully. 4-20 cm. Fl. wh.
 23. *Haemodorum* S. 70-90 cm. Fl. red.
 19029. *Spinaeae* C. 50-70 cm. Fl. violet.

Grasses

19337. *Fabrisia* P. on shrubby edges of gullies. Large clumps 60-100 cm. ^{red.} Fl. ^{red.}
 43. Erog. wet sandy banks of gullies. 10 cm.
 19501. *Cladium* ? Rooted on sandy floodbanks. Clumps ± 1 m.



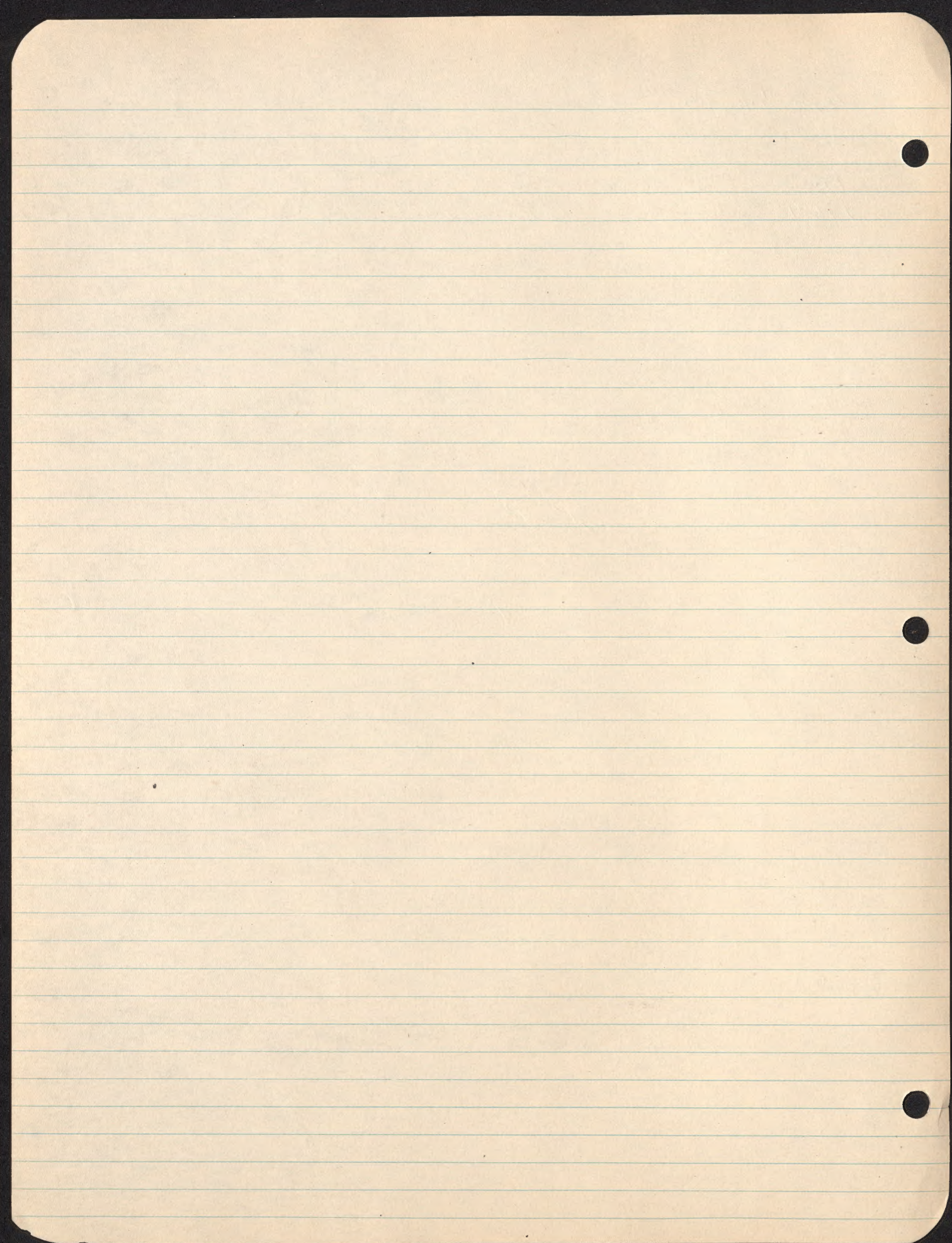
Togo Sub Sah

Savanna forest

Vitis

19431. *Gioscomea*

Adjacent to R.F. 3m. Large cylindrical tubers 40 x 3 cm.



Togo Sup Camp

Trunk Bush

Trees

19528. *Mossia chrysodendron*. F. tree 56m. Fls. golden yellow.

Shrubs

19424. *Euph.* P. in *Agave* scrub on sandy ridges. 2-3m. Fl. wh. Fruit greenish.

25. *Hibiscus Banksii*? P. " " " 1-1.5m. Fls. yellow. Stiff leaves to below.

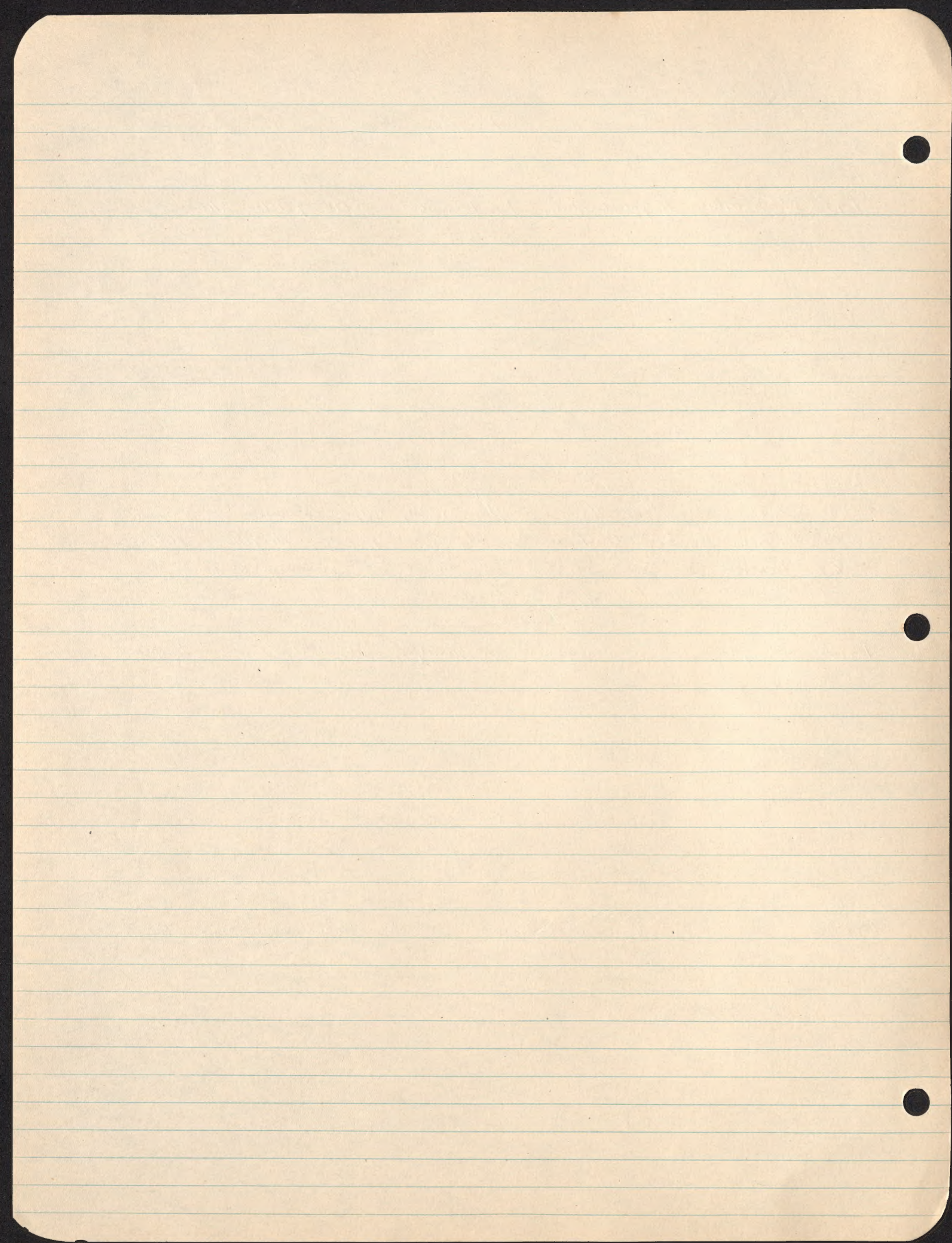
27. *Euphorbia*. S. 20-40cm. Fls. wh. Fl. ? Leaves glauc. below.

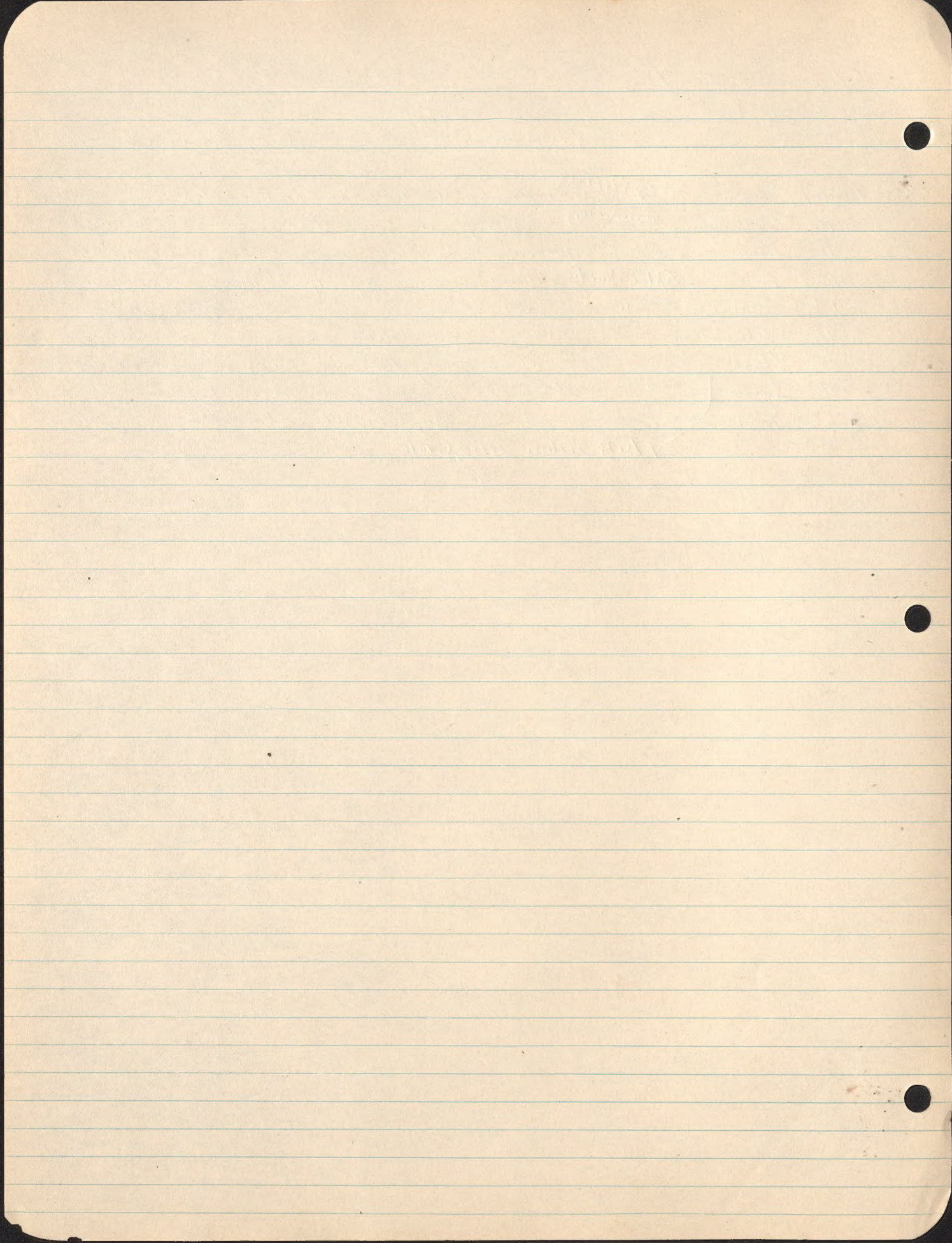
28. *Boronia* P. locally 30-60cm. Fls. pink.

19165. *Ficus*. *Thunbergia* on sandy granitic soil. 1-2m. Abundant pink fls.

Herbs

19426. ? C. in *Agave* scrub. 20-25cm. Fls. wh, later pink or to. Strong





Summit, 300 m.

Toger Tak Camp

Bufflelooney Peak

Rain forest

19356. *Quintinia* Tree 12 m x 25 cm. Fl. wh., fragrant. Leaves grayish below
61. *Morogobius* (*Hoffmannia*?) ^{Kundege} Fl. of a ravine. Tree 7 m x 12 cm. Fl. ? Pl.: reddish-purple below.
63. *Pandanus* C. bushy fl. & adjoining *Liptospermum* (?) shrub. 5-7 m. See label
66. *Aporosa* Bushy forest 250 m. Vine 3 m. Fls. br-yellow. Pl.: unripe.

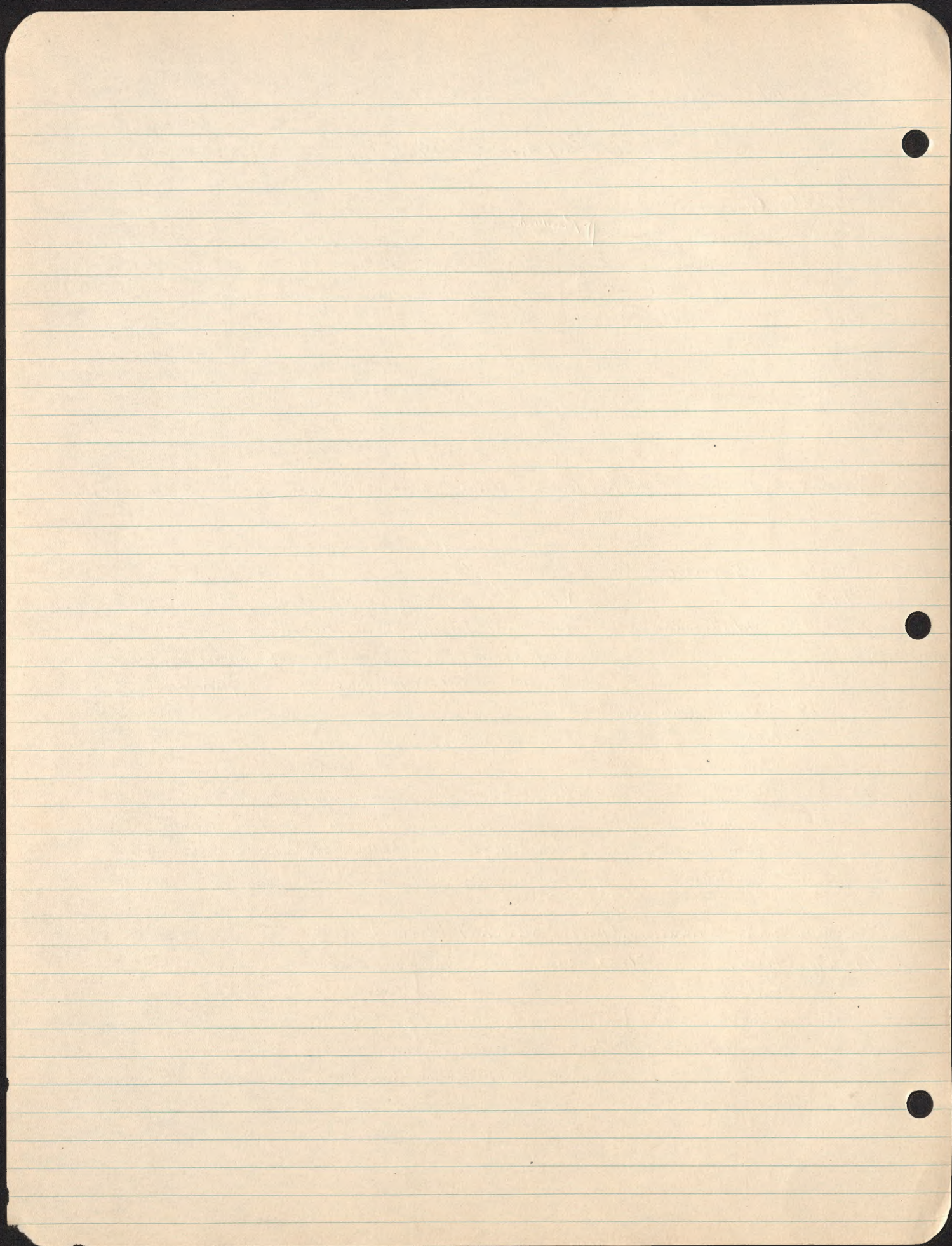
19364. *Myrsine* Several trees in a sheltered chimney. 8-12 m x up to 30 cm. Fl. black. Stiff gray waxy bark.

Shrub & bushy forest

19345. *Bacca*? V.A. in scrub & bushy forest 300 m. Shrub 2-3 m. Fls. deep violet.
46. *Liptospermum* ? ? D. in scrub of rocky, granite summit. Tree 3-6 m. Fl. wh. Pl.:
Very picturesque tree with usually several contorted stems, etc.
See label & journal "Papanone Tree"
49. *Phalacra gaudyocarpa*? P. Tree 5-10 m. a shrub on exposed bluffs. Fls. red. (Red Catina)
51. *Euph.* P. in scrub on exposed granite bluffs. Shrub 50-150 cm. Fls. yellow. Leaves gray.
52. *Ardisia* Shrub 1 m. (divaricate). Fls. wh., later pink.
53. *Euph.* U.G. of bushy forest. Shrub 1 m. Fls. wh.
58. *Phyllanthus* P. in scrub, under 1 m. (shrub). Little branched.
60. *Tram.* Scattered in semishade in shrubbery. 15-30 cm.
62. *Cladium* Shrub of summit. Few stems in leaf 80-130 cm.

Granite rocks of wind swept open summit (300 m)

19347. *Ficus* Tree 2 m. Low sprawling habit
48. *Liptospermum* Shrub 30-150 cm. Camp. wh. fl. Leaves smooth & shining. (Rock crevices on a windswept bluff)
also forest: 50. *Hibbertia* V.A. on bluffs & in u.g. of bushy forest. Shrub 50-100 cm. Fls. pale yellow.
57. *Malacra* Mat in rock crevices. Shrub 20-30 cm.
65. *Tram.* Bearing small soil pockets in rock crevices 250 m. 10 cm.



Togon Range & Mt. Togon

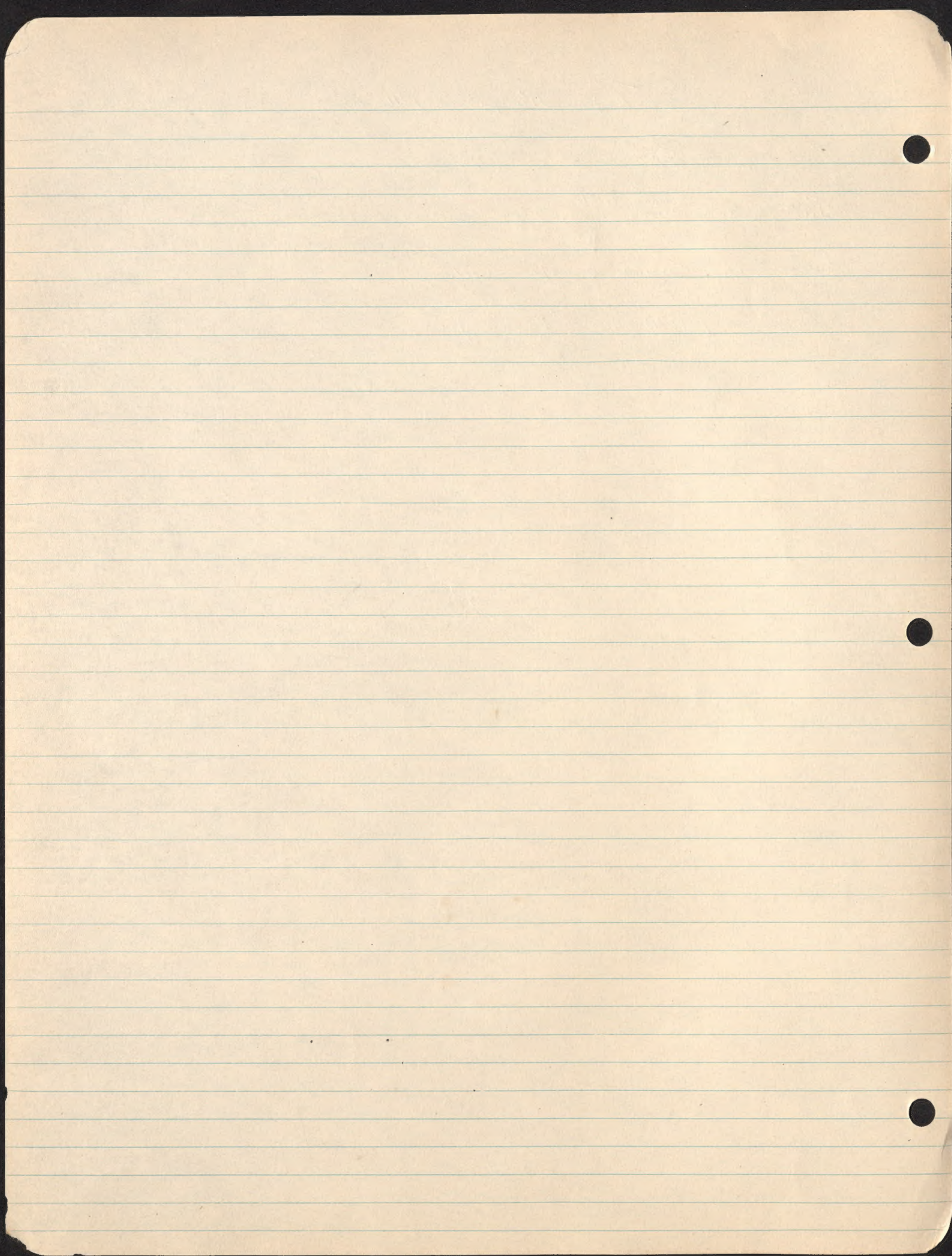
200 m. 2 higher

Rain forest of slopes - up to 400 m.

Rain forest of ^{upper levels} ~~summit~~ - above 400 m.

~~Rain forest~~ dense scrub of upper levels

Summit of Mt. Togon (520 m).



Togon Range & Mt. Togon

Rain forest of upper levels

Trees, canopy

194158. *Podocarpus* C. ± 18 m \times 25 cm. Thin pub. b. fibrous bark. ^{long leaves} Very glaucous smooth

65. ? F. ± 18 m \times 30 cm Fl. ? Fl: yellow.

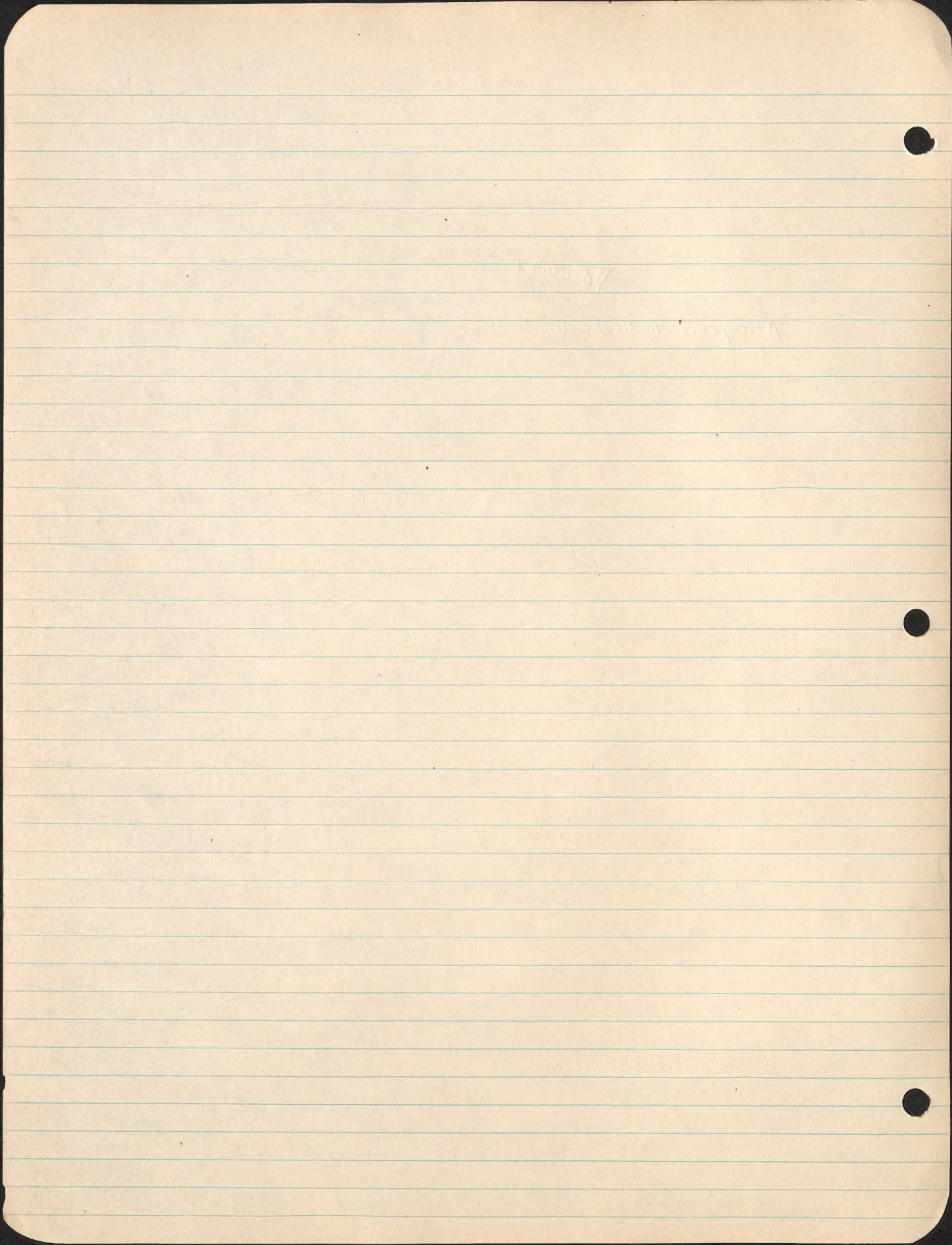
66. ~~*Arrangitia* (Hoffmann)~~ ^{*Kimelach*} F. ± 18 m \times 20-30 cm. Fl. ? Fl: y-w. aromatic.

67. ~~*But:*~~ 20 m \times 30 cm. Fl. ? Fl: 4-angled, yellow, acid. Leaves 3-4 ft.
Arrangitia multicapitata

Trees, subtidal

19978. *Ficus*.

On a face of granite 425 m. 5 m. Low, spreading habit.



Tozun Range 8 Mi. Tozun

Rain forest of upper levels

Trees, midstage

Woody undergrowth

- | | |
|-----------------------------|---|
| 19388. <i>Pithecolitium</i> | Shrub 2 m. Fls. ? Empty fls. only. |
| 19461. <i>Eoalania</i> | Tree 4 m. Fls. ? Fls. unripe |
| 62. <i>Euph.</i> | W. char. sp. of u.f. Tree 3-4 m. Fls. wh. |
| 63. <i>Rapanea</i> | Shrub 2 m. Fls. cream. Fls. ? |

Mosses

19470.

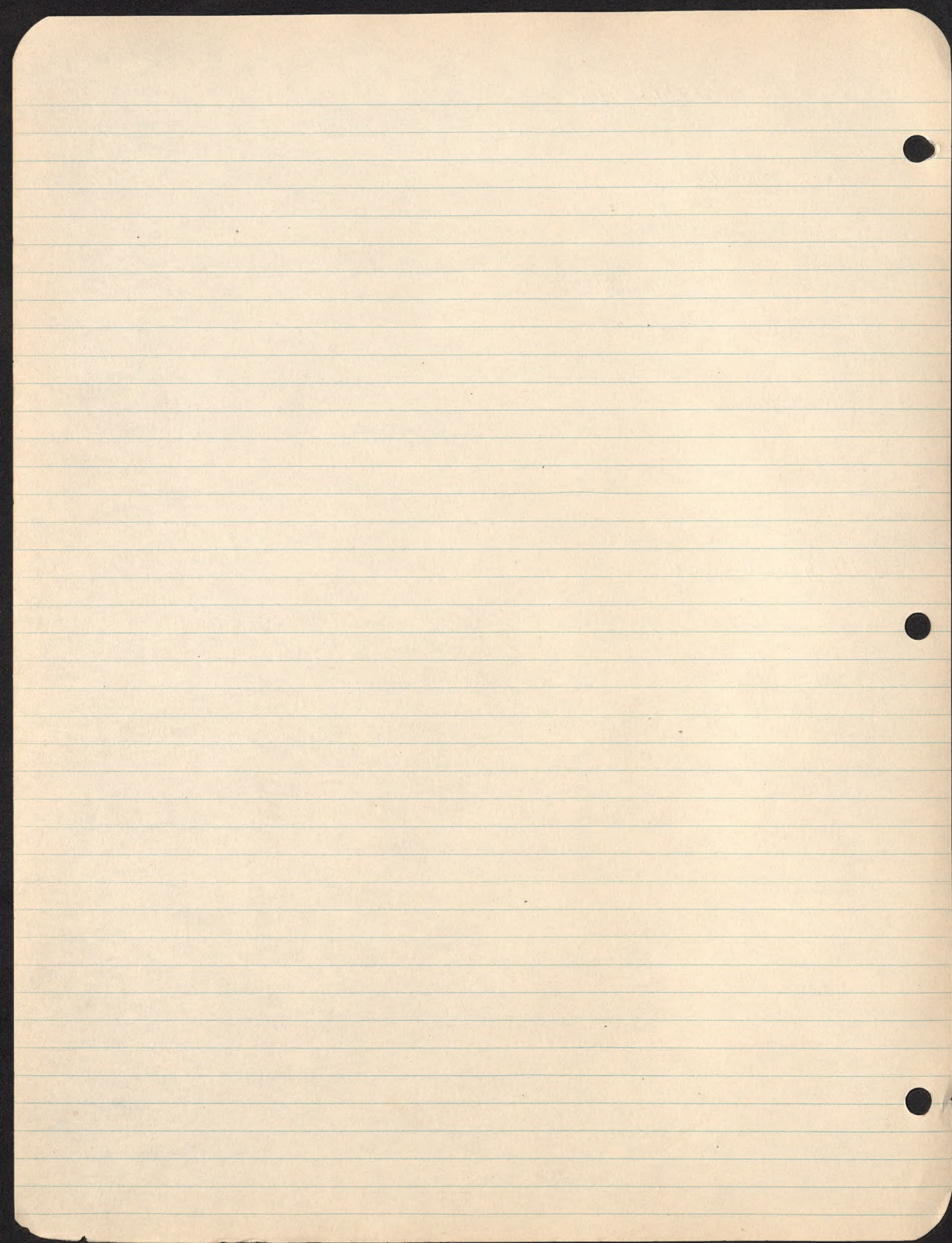
72

Rotten wood on R.F. floor

" " " "

19898 *Gyneria*

A. in moist ravine 425 m. To 3 m. Stems not stem.



Togon Range & Mt. Togon.

Rain forest of upper levels

Herbaceous undergrowth

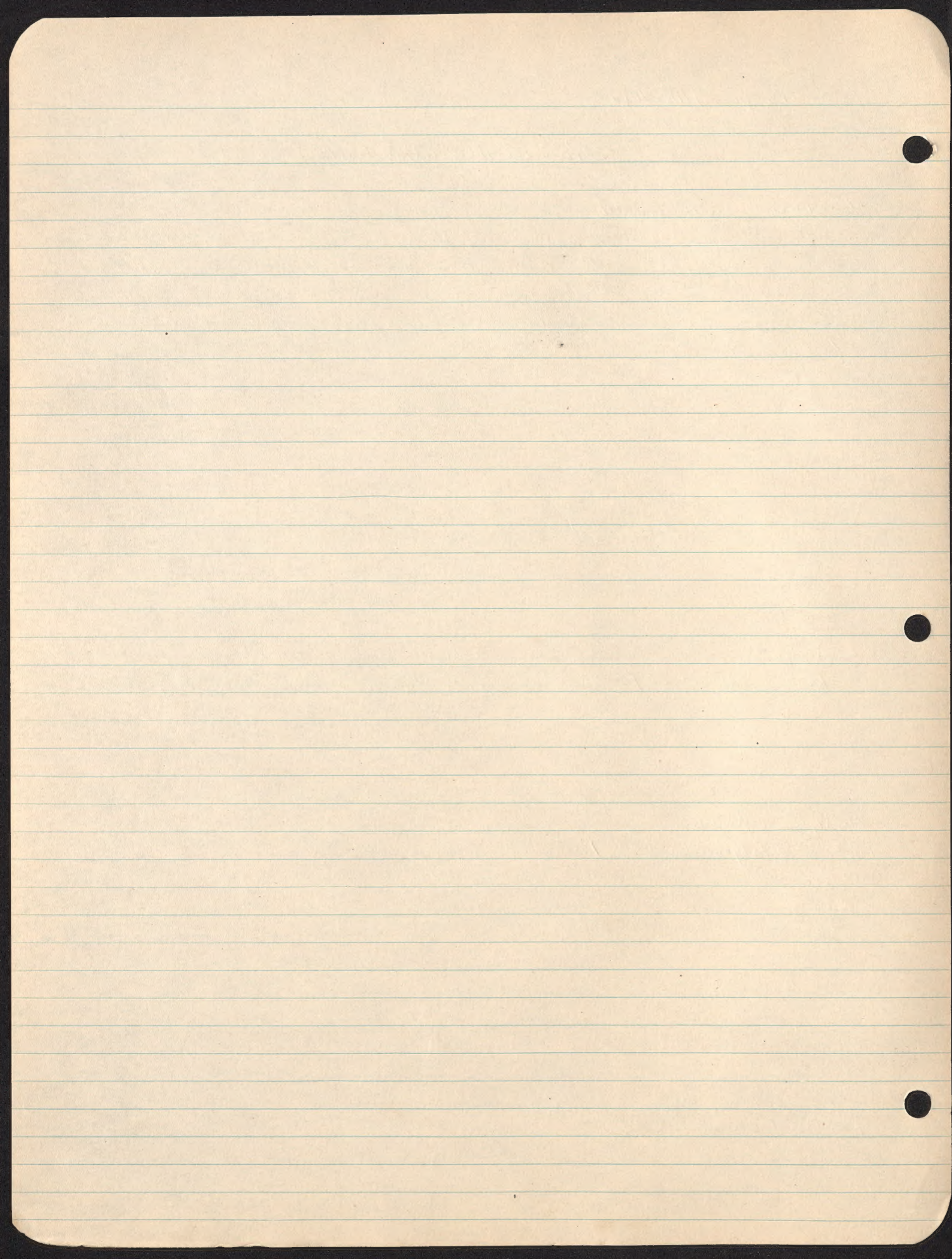
19389. *Plechnum* F. 425 m. Lf. 5 \pm 1 m.
 19400. *Hymenoph.* P. moist banks of stream 425 m. 10-18 cm. Very dark green.
 02. *Trub.* Greg. semi-shade on a granite rock face. 50-60 cm - fl. lavender.
 60. *Hymenoph.* Matted on wet granite rocks in gully 425 m. Lf. 4-5 mm.
 68. *Fern.* C. 30-55 cm.

Vines

19459. *Piper* Climbing 2 m. Fl. heads elongate, red (2 x 1.4 cm).
 69. *Cochlos.* F. stems unbranched, climbing 3-4 m.; plant fleshy. Petiole.

Epiphytes & parasites

19386. *Platycurium* F. Climbs 30-60 cm. dia. 425 m.
 91. *Moss.* Base of a dead tree "
 92. " Trunks of trees "
 94. *Coch.* Leaves on trees 425 m. Distichous; numerous minute br. red fr. inflores.
 96. *Fern.* Trifol. or marbled rows on trees 425 m. Lf 10 cm.
 97. *Hymenoph.* Carpeting bases of trees & rocks " \pm 1 cm.
 19404. *Moss* Lower trunks of trees "
 05. " Dead wood.
 64. *Saxifraga* Rhizome climbing. Leaves 5-50 cm.
 73. *Moss* High branches of a tree.
 19525. *Dendrobium* *Chrysomum*? F. buds only.



Togon Range & Mt. Togon

Dense scrubs of upper levels

400 m. & over.

Trees

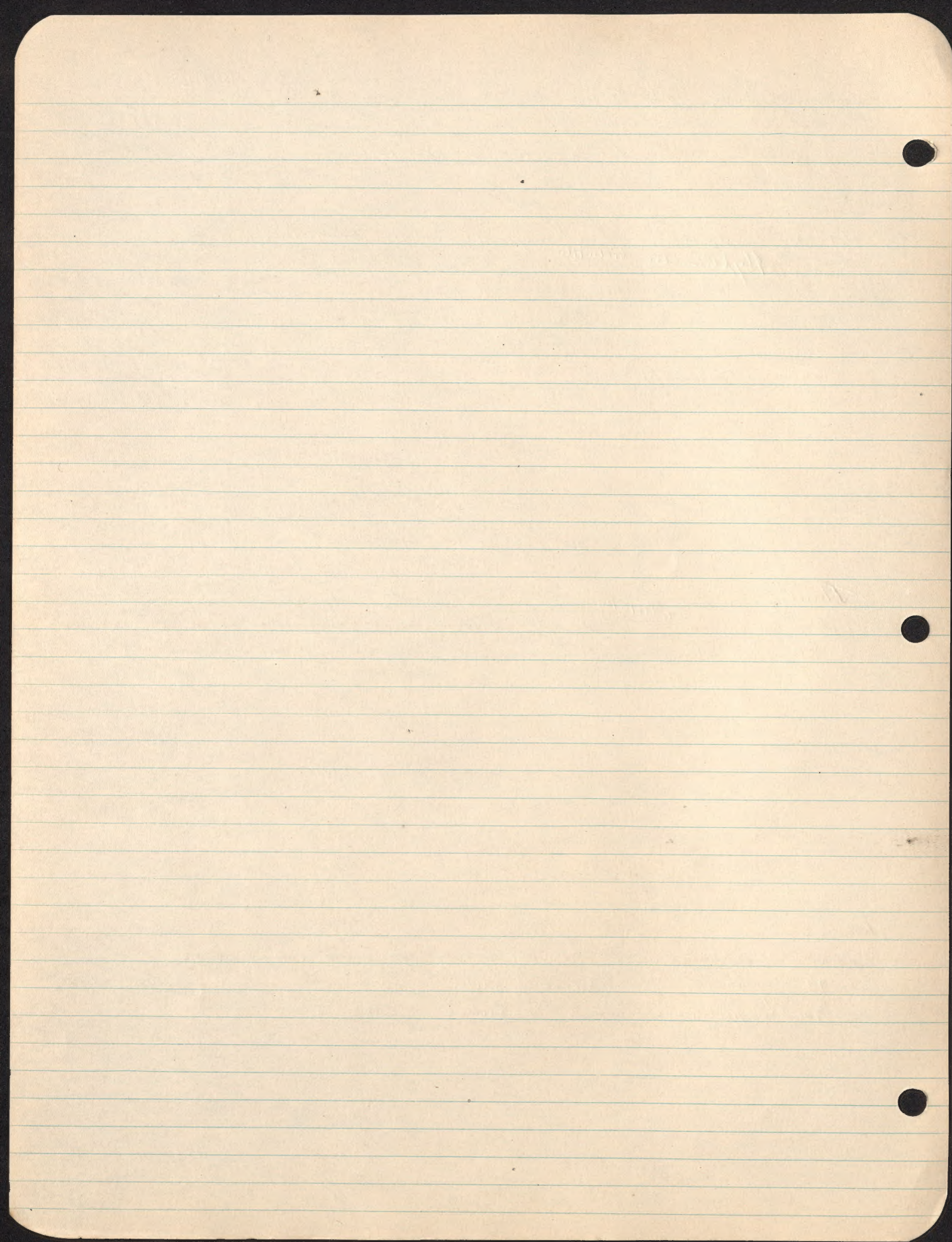
18387. *Banararia* A major dominant. Tree or shrub 1.5-3 m. (a sp. of lower country)
93. *Rhytidium* ^{*bedwillii*} C. tree or shrub 2-3 m. Fl. red.
95. *Leptospermum* *fabricia* V.A. " " 1.5-3 m. Fl. yellow. Fl.
19401. ? Low scrub of *Mel.* & *Banararia* 400 m. Tree or shrub 2.5 m. Fl. ? fl.

Shrubs

19486. *Peruvia* ^{*a. luteata*} A. locally in *Banararia* - *Phalacro* scrub 450 m. ^{40-70 cm.} ~~fl.~~ fl. pink.
88. *Peperomia* P. in a moist gully. 450 m. Tree or subshrub to 1.5 m.

Herbs

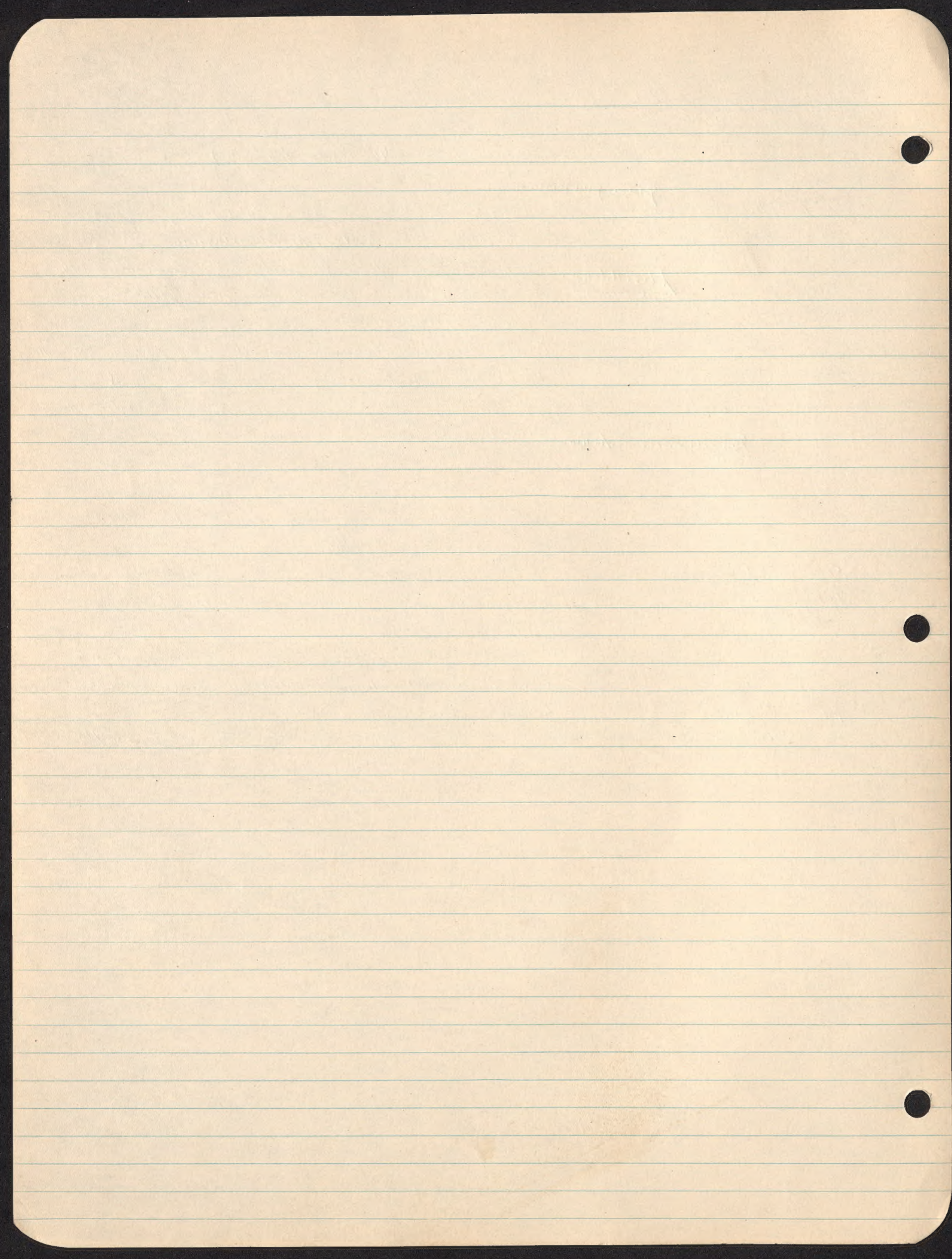
19487. *Gleichenia*. A. edges of a gully. 40-60 cm. Leaves lutea.
93. " Edges of gullies. 30-80 cm. Leaves very glaucous. Below.
94. *Lycopodium* *complanatum*. In gullies. 50-80 cm.



Toyon Range 8 Mi. Toyon

Summit of Mt. Toyon (5240m.)

19477. *Metaleuca* ^{*gracilifolia*} ~~var.~~ A. in scrub. Shrub 1.5-3m. Bark papery. Fls. green-wh.
78. *Prostanthera* ! C. shallow rocky soil exposed situations. Shrub 25-35cm. Throng pale purple fls. Compact, bushy. Lower than 8 ft. high.
79. *Encelia* ^{*lanceifolia*} ~~*chrysantha*~~ P. tree or shrub 1-4 m. Fls. golden yellow, leaves silvery below.
80. *Arat.* F in *Metaleuca*-*Gomara* scrub. Shrub 1.5-2 m. Fls. yellow.
81. *Baccharis* Open sandy soil in scrub. Fls. reddish-pink.
82. *Hibbertia* A. as u.s. in scrub. Shrub 30-40 cm. Fls. pale yellow. Leaves gray below.
83. *Eriostema* ^{*sp. nov.*} ~~*sp.*~~ P. in open rocky situations. Shrub 25-50 cm. Fls. cream. H. 1-5 ft. 16 ft.
84. *Hedyotis* Rare. Shrub 50 cm. Fls. wh. Stiff fleshy leaves. (U.S. shrub)
85. *Leptospermum* "Japanese tree" A. open exposed rocky places. ± 1 m. corolla 8 often sprawling. Fls. white.
90. ? *Antennaria* ? C. open rocky situations. Shrub 15-20 cm. Fls. wh. to salmon pink
91. *Utricularia* Small patches of moist soil in crevices of exposed granite rocks
92. " 8-17 cm. Fls. purple & blue
- " " " " 2-5 cm. Fls. dark purple.
86. *Moss* Seepage - moist places on exposed granite rock faces.
87. *Asplenium* Living branches in scrub.
19512. *Senecioium* P. on bare granite rocks. 10-25 cm. Papery cream fls.



Altitude 60 m.

Brown Creek, Pascoe River

Gallery rain forest

Brushy forest ^{floodbanks} of islands in creek

Savanna forest

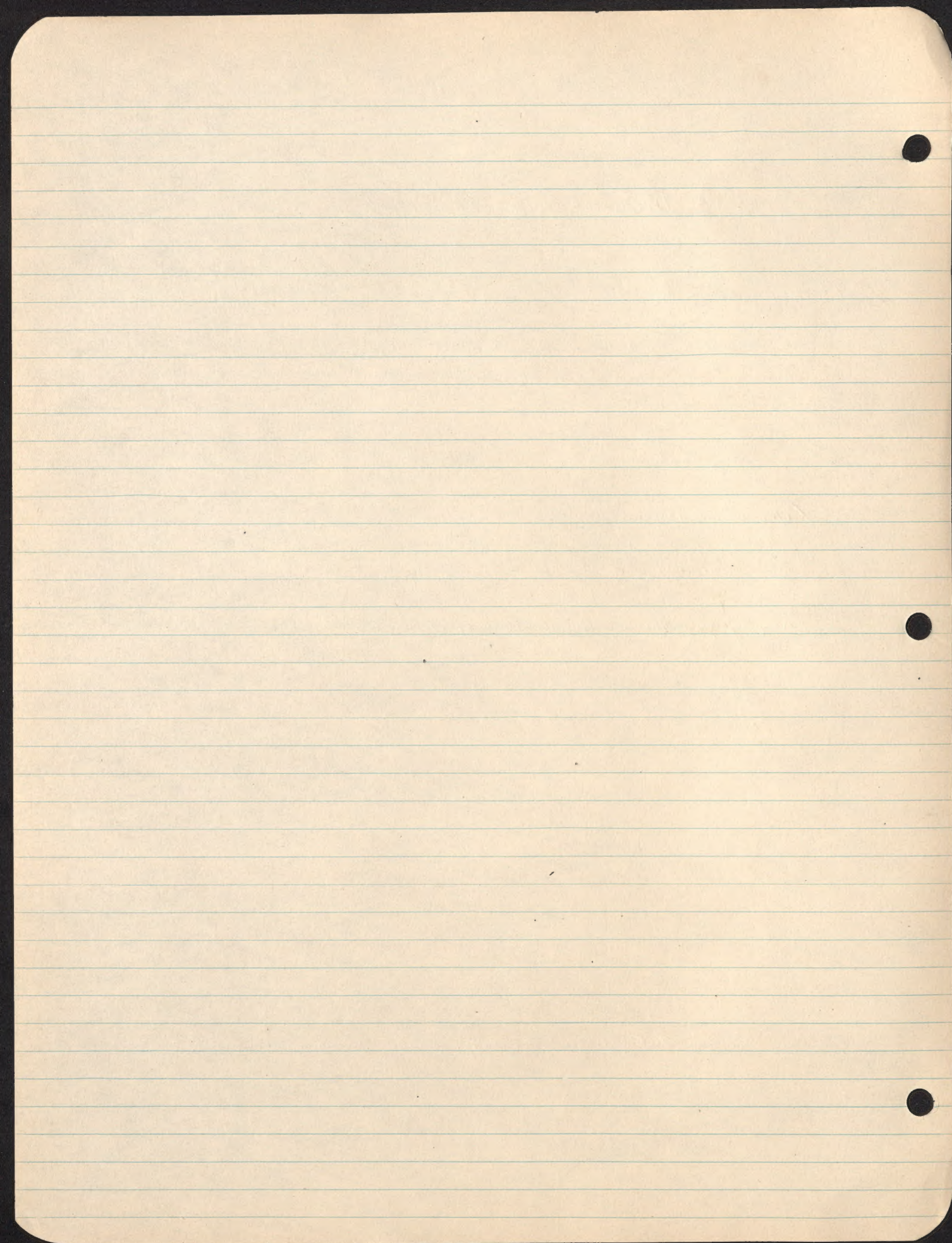
Turkey bush

Leptostromum (?) sp. 6.

Pog plants. (Pitcher-plant 609).

Shrubby growth on low floodbanks of creek.

1956. *Thana submollis* Woodw. l. s. Totally submerged in rocky shallows of creek.



Pharus Creek

Gauging rain forest

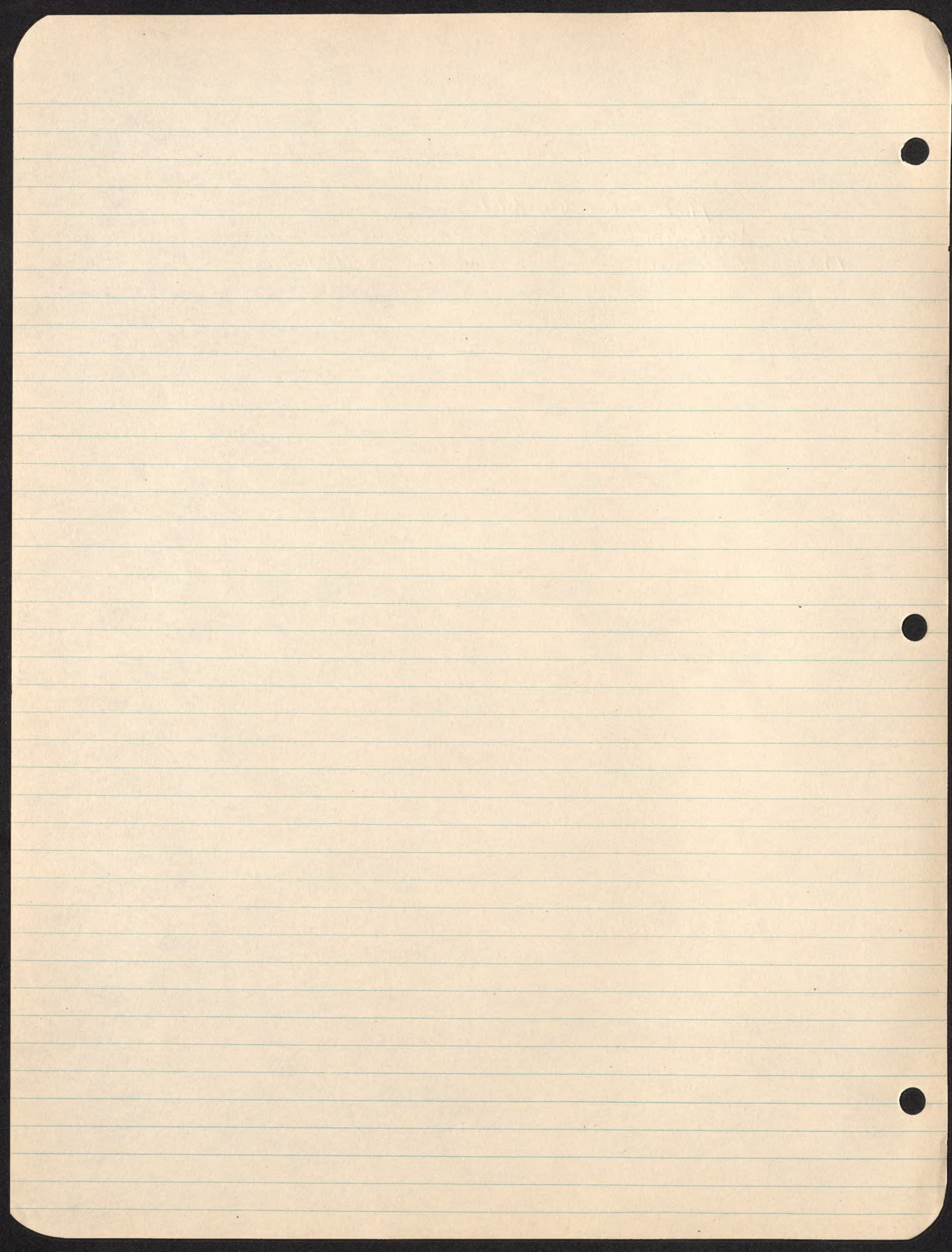
Trees

Miconia *litorea* *filata*

19591. *Xanthostroma*? C. on flood banks. 6-10 m. fl. ? Fls. gray bark.
19645. *Rapanea* 5-6 m. fl. ? fl. purple.

Vines

19586. *Meriania* *reticulata*. Twining & climbing 7-8 m. fl. cream. Sh. 1-like curly lobes
pale green below.



Brown's Creek

Brushy forest of floodbanks & islands in creek

Trees

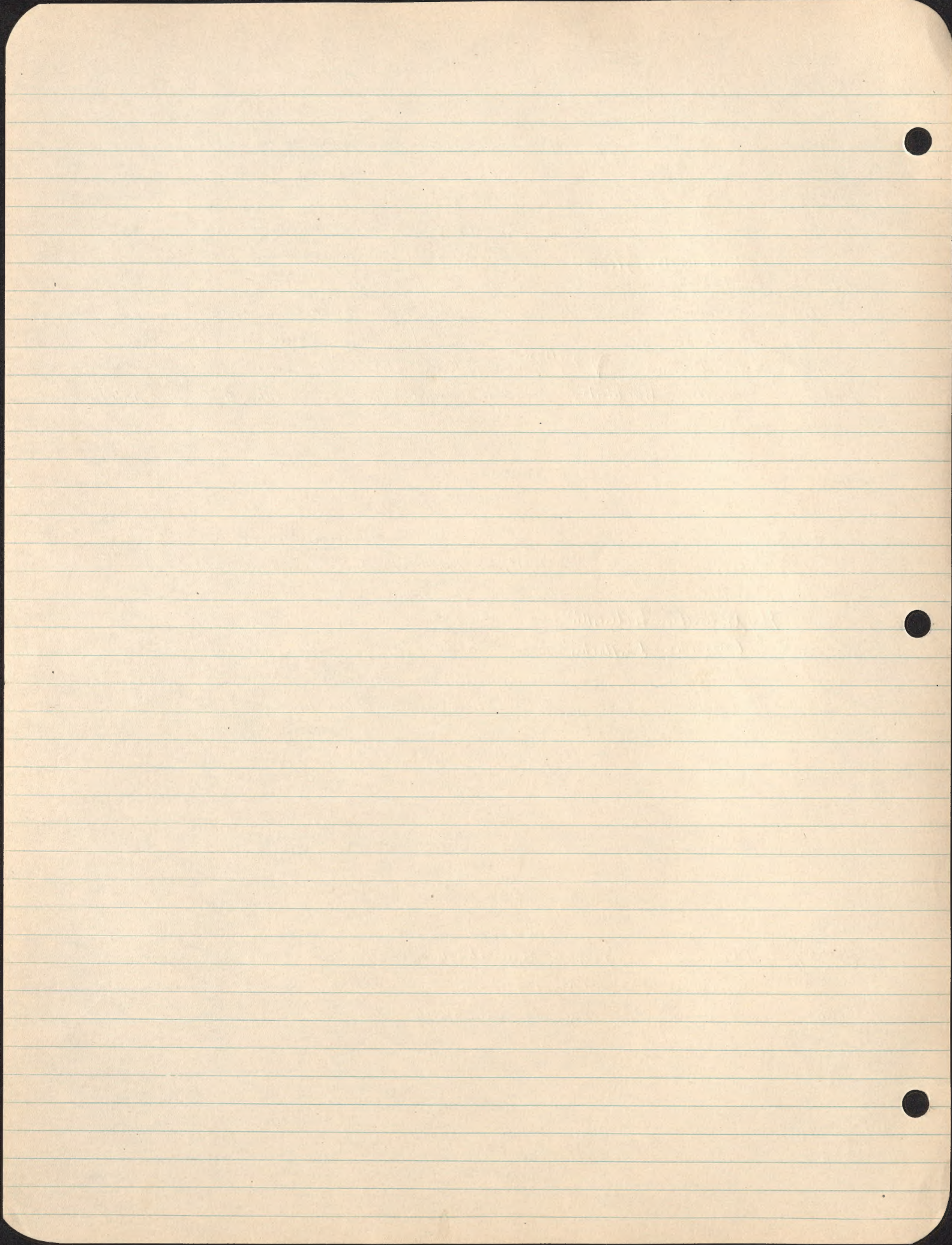
19185. *Callitris*. C. on gravelly low floodbanks. $\pm 18m \times 85cm$. Leaves dark green. Bark grey, fibrous, shallowly fissured.
19538. *Euphorbia*? ^{*Andriandrea glauca*} C. 4-5 m. Fl. ? Fl. purple-black.
40. *Pandanus* F. 4-5 m. (= small sp. of *Pandanus* from Big & Togo Range?)
79. *Euph.* 10 m \times 15 cm. (In brushy forest as a shrub. Also *Mossy River*).
92. *Bot. (Pterocarpus)* ^{*3-6 m*} Fl. gr. white. Fl. 7 cm.
19604. *Carallia brachyate* F. 10-12 m \times 20-25 cm. Fl. gr. wh. Fl. ? Bark pale to, soft & sticky

Shrubs

19531. *Myrtus* F. 1.5 m. Fl. ? Fl. unisexual.
37. *Ficus* Brushy island. 1-2 m. Leaves brown.
56. *Aral.* O. 2 m. Fl. yellow. Fl. black.
59. *Myrtus* *Andriandrea* *Andriandrea* 1 m. Fl. ?
74. *Conocarpus* *Dallochii* 1.5 m. Fl. ? Fl. gr. yellow, dehiscent fl.
81. *Cupress.* One ex. sample on creek bank. 2.5 m. Fl. cream. Fl. ?
88. *Ficus*. *Samishale* on moist banks.

Herbs

19557. *Scleria*. Ery. in semishade 100-150 cm. Fl. pale brown.
58. *Panicum* Moist shady banks of cr. Brushy & ascending 50-60 cm.
19605. *Poa*. Ery. in semishade. 30-50 cm.

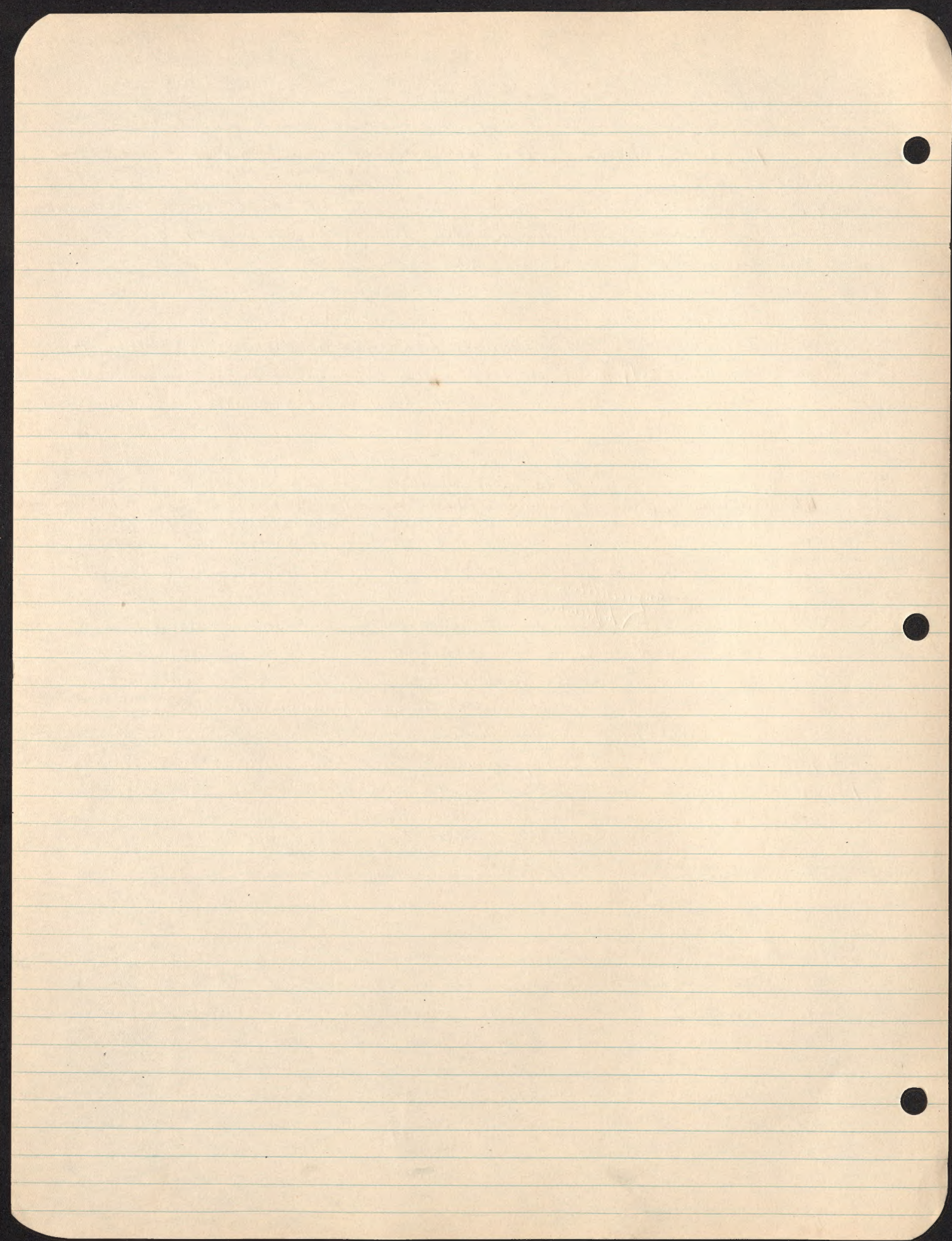


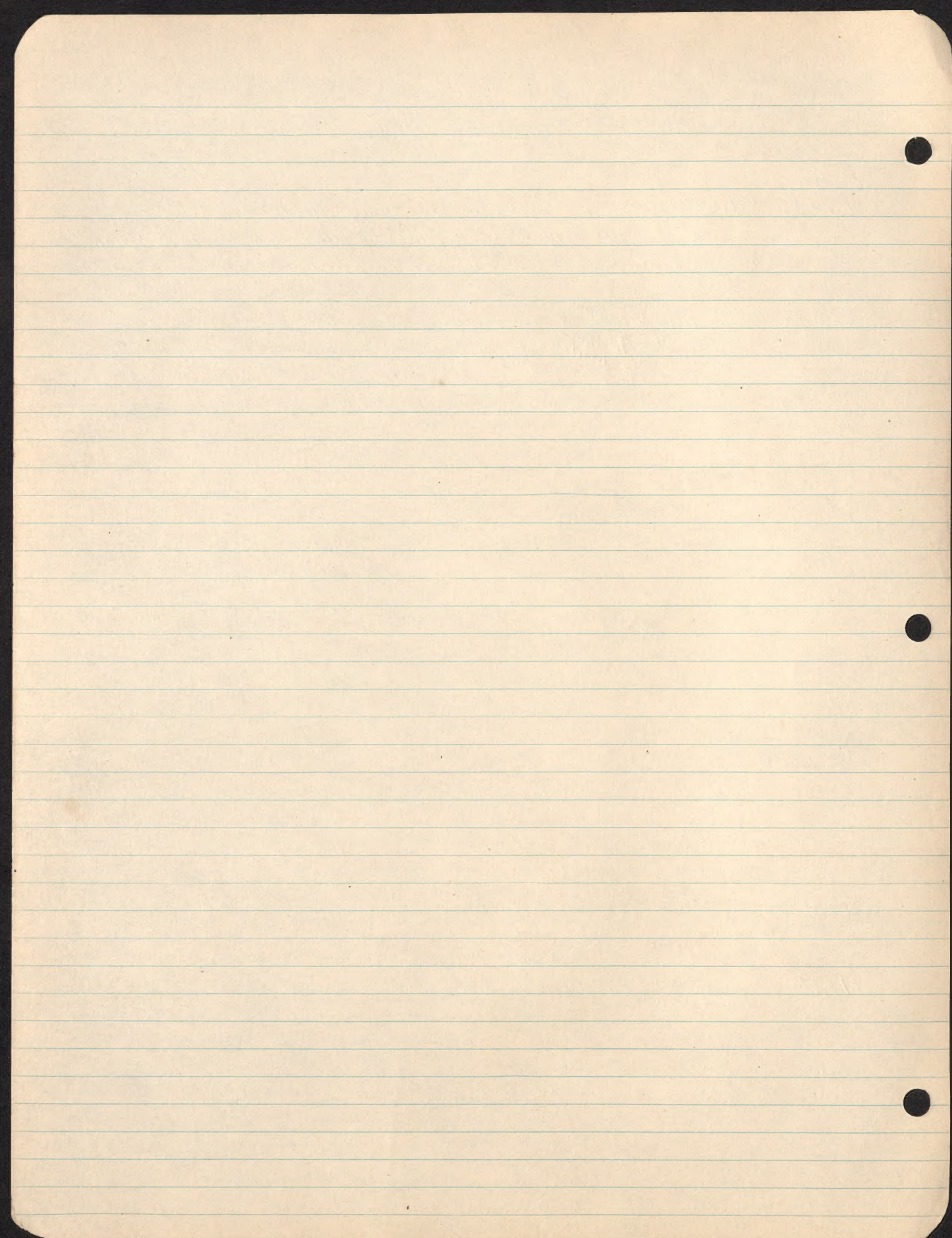
Brown's Creek

Mammals forest of sandy ridges.
Bloodwood forest of low " "
Bloodwood & mammal "

Savanna - forest

19643. *Boehmeria*. O. on high banks of streams & rocky bluffs. 5-10 m x 20 cm. Fl. yellow. Leaves dark grey back. Fl. yellow. Scabrous with few leaves.
19180. *Conocarpus* F. in bloodwood st. 7-10 m x 15 cm. Fl. yellow. Branch dark grey bark.
19554. *Eucalyptus* Bloodwood. Often principal tree on sandy ridges. 10-20 m x 15-50 cm. Fl. cream.
73. *Alphitonia* O. in bloodwood st. 7-8 m. Fl. orange.
80. *Myrtilla striata* O. " " 15-12 m x 20 cm. Fl. cream.
83. *Entolasia*? Scattered on high dry creek banks. 5-6 m x 12-15 cm. Fl. ? Fl. cream.
84. *Melaleuca* ~~foliolosa~~ ^{foliolosa} Several trees 6-10 m. on a scrubby granite bluff on creek. Brown bark with shaggy; bark grey, papery. Scale bark 2/3. Mammals. A char. tree of flat sandy ridges. To 25 m x 35-40 cm. Fl. cream. Bark straight; grey string bark.
19630. *Eucalyptus* Mammals. A char. tree of flat sandy ridges. To 25 m x 35-40 cm. Fl. cream. Bark straight; grey string bark.
83. *Xylocarpus* O. in mammal/bloodwood st. 6-8 m x 12-15 cm. Fl. ?
82. *Myrtilla* ^{var.} Scattered on banks of watercourse. To 25 m x 30 cm. Fl. white. White/papery bark.
50. *Pandanus* A moist gutterside creek fls. 7-10 m. very large fruit tree. Fl. white.
- Shrubs
19164. *Xanthorrhoea* V.A. in mammal forest. Total height to 2.5 m. Stem 1, 2nd stem 50 cm.
66. *Heliconia angustifolia* F. in grass & shrubby v.g. of mammal st. Branch 1.5-2.5 m. Fl. purple.
75. *Distichlis* ^{X. hispida} ~~X. hispida~~ Erect shrub 20-30 cm. Fl. orange.
81. *Hibiscus* C. in st. (bloodwood/mammal) at camp. 2-3 m. Fl. white, throat purple.
87. cf. *Grewia* P. in bloodwood st. of sandy ridges. Prostrate branches to 80 cm. long. Fl. ? Fl. ripening underground.
88. *Mossia reticulata* J. in bloodwood st. 50-60 cm. Branches upright.
99. *Rub.* Eng. small groups in bloodwood st. 1 m. Fl. green. Fl. ?
19608. *Melastoma* Moist sandy flood bed of cr. 2 m. Fl. very rose purple fls.
34. *Bibbula* F. bloodwood/mammal st. ridges. 40-60 cm. Fl. pale yellow fls. Leaves silvery-pink. Below. (Sarcocolla also).
38. *Occacia* P. in mammal/bloodwood st. 2 m. Fl. whitish. Stem usually 1.
- Herbs
19168. *Haloragis* C. locally in mammal st. of sandy ridges. 60 cm. Fl. green. Fl. red.
82. *Acacia* O. open grassy creek fls. 30-50 cm. Fl. pale pink fls.
87. *Thermopsis* C. sandy st. 20-30 cm. Fl. lavender
19536. *Melampyrum* Several in grassy flood bed of creek. Ascending stems to 1 m. Fl. blue
67. *Cony.* F. dry stony hillside. Spreading branches 1 m. long. Fl. blue
75. *Thermopsis* One plant on open sandy flood bank. 35 cm. Fl. lavender. Ascending
77. *Acacia* C. open sandy flood banks. 30-50 cm. Fl. white. Speckled pink.
82. *Phyllanthus longipetiolatus* " " edges of creek. 30 cm. Fl. yellow.
19640. *Lythrum* P. on moist hill (beds in a creek. 5-30 cm. Fl. white
41. *Utricularia* Southern " " " Fl. green-yellow. 10-25 cm.
44. " Swampy " " " Fl. pink & blue.





Turkey bush.

Trees

19174. *Emvilia chrysodendron* P. Slender tree 3-6m. Fls. rich golden yellow.
 19563. *Acacia* C. overtopping tree 6-8m. Fragrant yellow fls. ± glaucous (a no. R.R. 8) ^{hedge}
 94. *Eucalyptus* Local " 10-12m x up to 30cm. on sandy ridges. Fls.?
 Bay-barked stem; smooth grey branches.
 98. *Melaleuca* S. overtopping tree 8-10m x 10-20cm Fls.? Slender, straight
 trunk; small crown; fragrant grey bark.

Shrubs

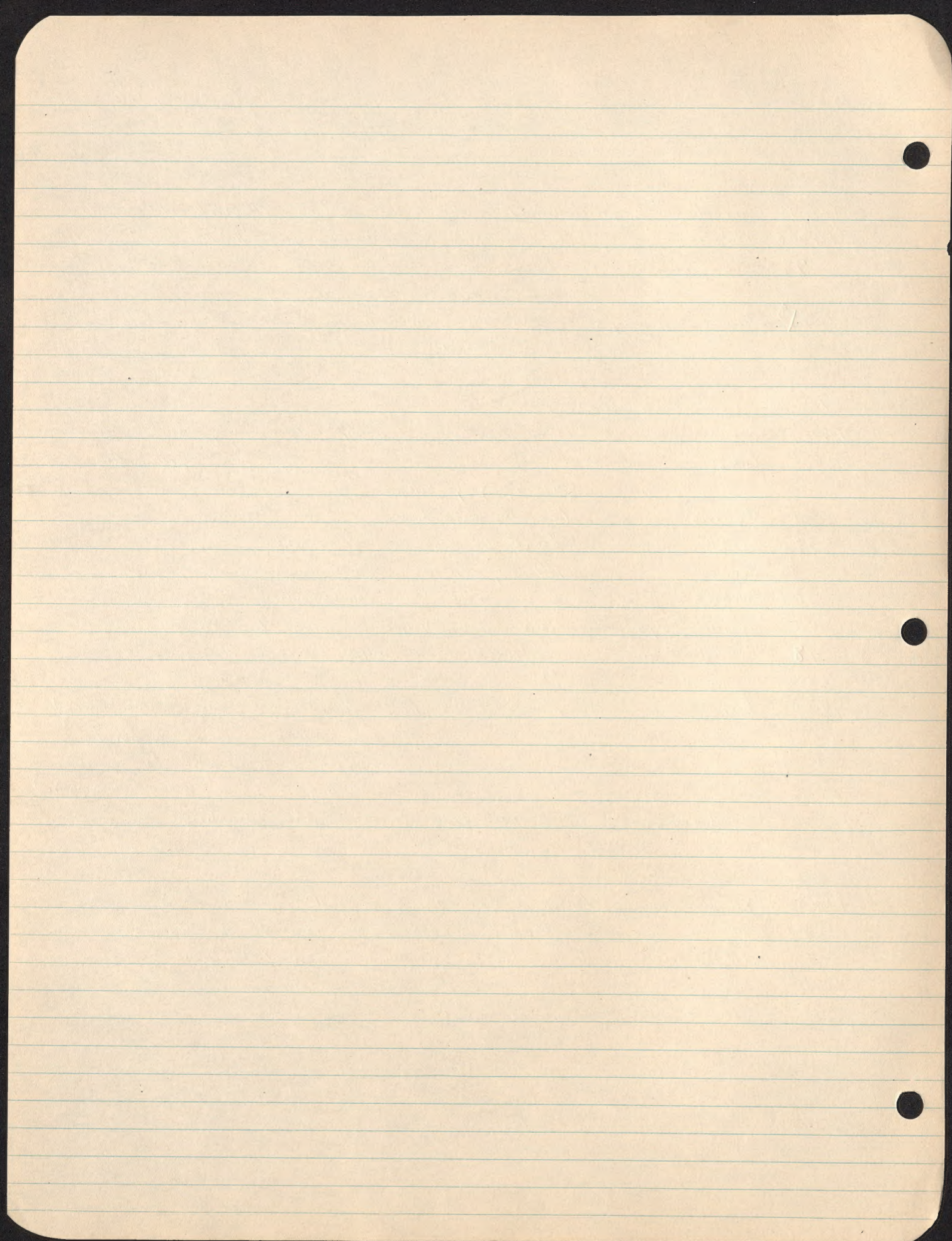
19169. *Baeckia*? O. in clambering of sandy ridges. Bushy, 50-60cm. fls. white.
 70. *Euph.* F. " " " " Slender, 1-2m. Fls. yellow. Leaves, long
 above, grey below.
 71. *Argemone* One of the chief species. 1-3m. Fls. wh.
 72. *Boerhaavia* Locally D. 2-3m. Fls. pink.
 73. *Lycium* P. locally. 1-2m. Fls. yellow. Leaves grey-green
 76. *Pithecellobium* C. " 1-1.5m. Fls. purple
 77. *Emvilia Gayandii*? Unc. stony ridges. 40cm. Fls. Fls. very viscid.
 78. *Rut. aff. Boerhaavia* A. locally sandy ridges 20-40cm. Fls. gr.-wh. P. orange.
 84. *Acacia*? P. 1-2m. Fls. violet. Pods inflated.
 19539. *Euph.* P. 1.5-2.5m. Fls.? P. green (also *Gardneri* R. & L.).
 50. *Santal.* O. to 2m. Fls. orange-yellow (all way to 7.2).
 52. *Myrt.* P. locally sandy fls & ridges. 30-50cm. Fls. wh., perianth.
 62. *Rut.* P. 30-60cm. Fls. wh. Fls. aromatic leaves. (also *Gardneri* fl.).
 64. *Dodonaea* C. 1.5-2.5m. Fls.? P. wings purplish.

Herbs

19548. *Syridium* Local on open sandy ground. 3-6cm. Showing some fls.
 51. *Euph.* C. woody herb 50-80cm. greyish leaves. Enlarged fls. caddy (Baker's bk. ^{also})
 65. *Boerhaavia* Scattered in scrub; often on old washed *Cornia* hills. 20-40cm. Fls. pale
 71. *Boerhaavia* C. locally. 40cm. Ascending; bushy.
 19631. *Cladium* Principal ground cover (also of St). Many clumps of numerous
 stems 50-70cm.

Grasses

19549. *Erag.* on burned over sandy ground. Flattish leaf 15-20cm.



Brown's Sh.

Turkey bush

Shrubs cont.

19568. *Phyllanthus* ?

S. 50-70 cm. Fls. pale green.

69. *Epacrid.*

F. compact, bushy 30-50 cm Fls. wh. Leaves ± glaucous.

72. *Distichlis*

O. 40-70 cm. Fls. green. St. green, inflated.

88. *Fungia*

A. on stony ridges. 1.5-2 m. Fls. pink. Upright branching habit; leaves grey below

97. *Gibbertia*

O. 1.5 m. Fls. pale yellow.

19601. *Asplenium*

P. bushy or subscandent.

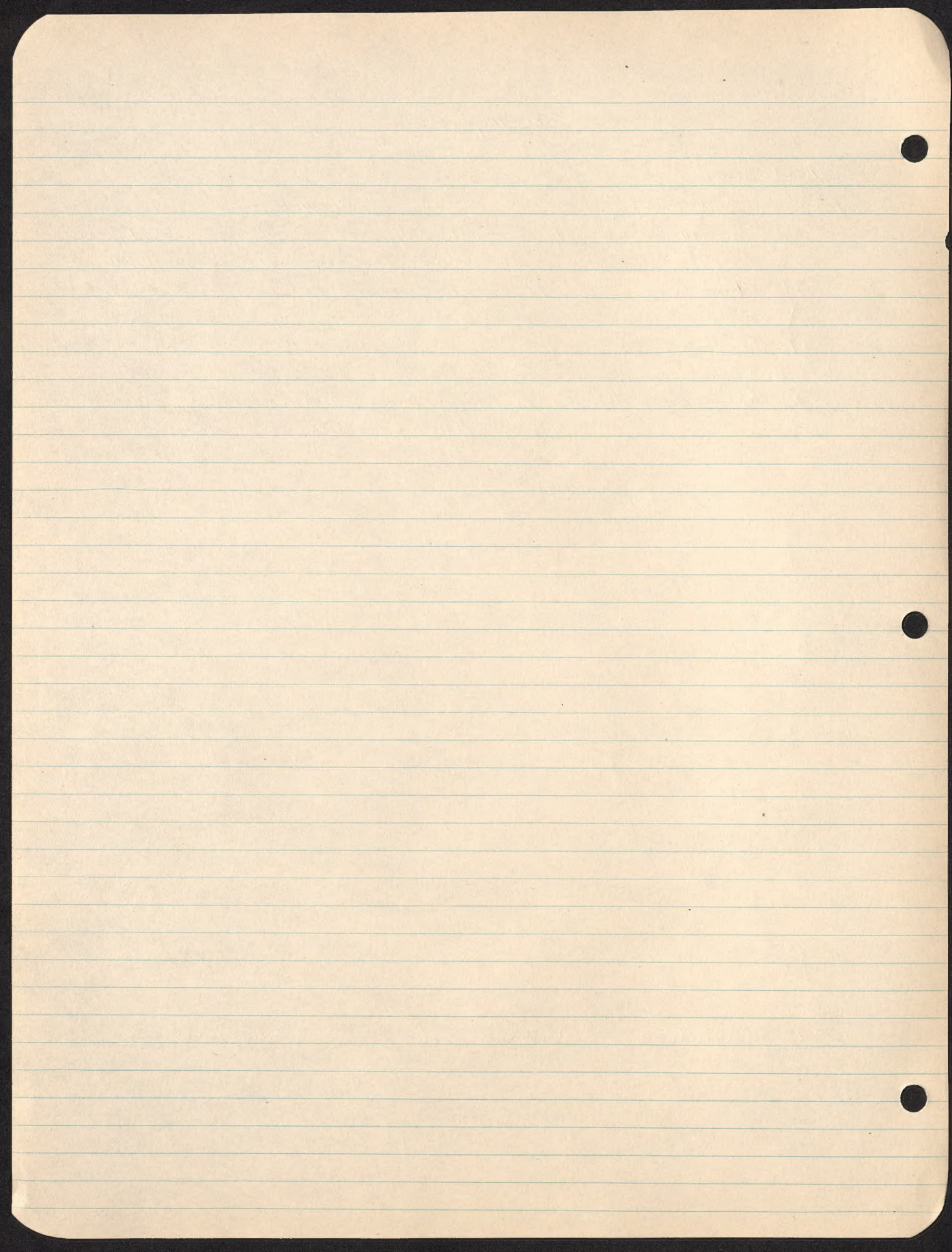
49. *Leptospermum* *viridic*

A. locally. Tree or shrub 2-4 m. Fls. yellow. Bark grey; fibrous & fissured.

Parasites

19570. *Loranthus*

On *Acacia* sp. 20 cm. Fls. red; bracts green.



Browni 8 R.

Dry rocky granite ridges
dry conglomerate ridges

Leptospermum (?) scrub.

Wies

19178. *Leptospermum* (?)

5-7 m. Fl. wh. More or less flat-topped & horizontally
branched tree. Bark thin, smooth, purplish red.

19553. *Leptospermum*

Arboreal plants. Shrub 60-100 cm Fl. yellow. Leaves spine tipped.

19554. *Phakelium*

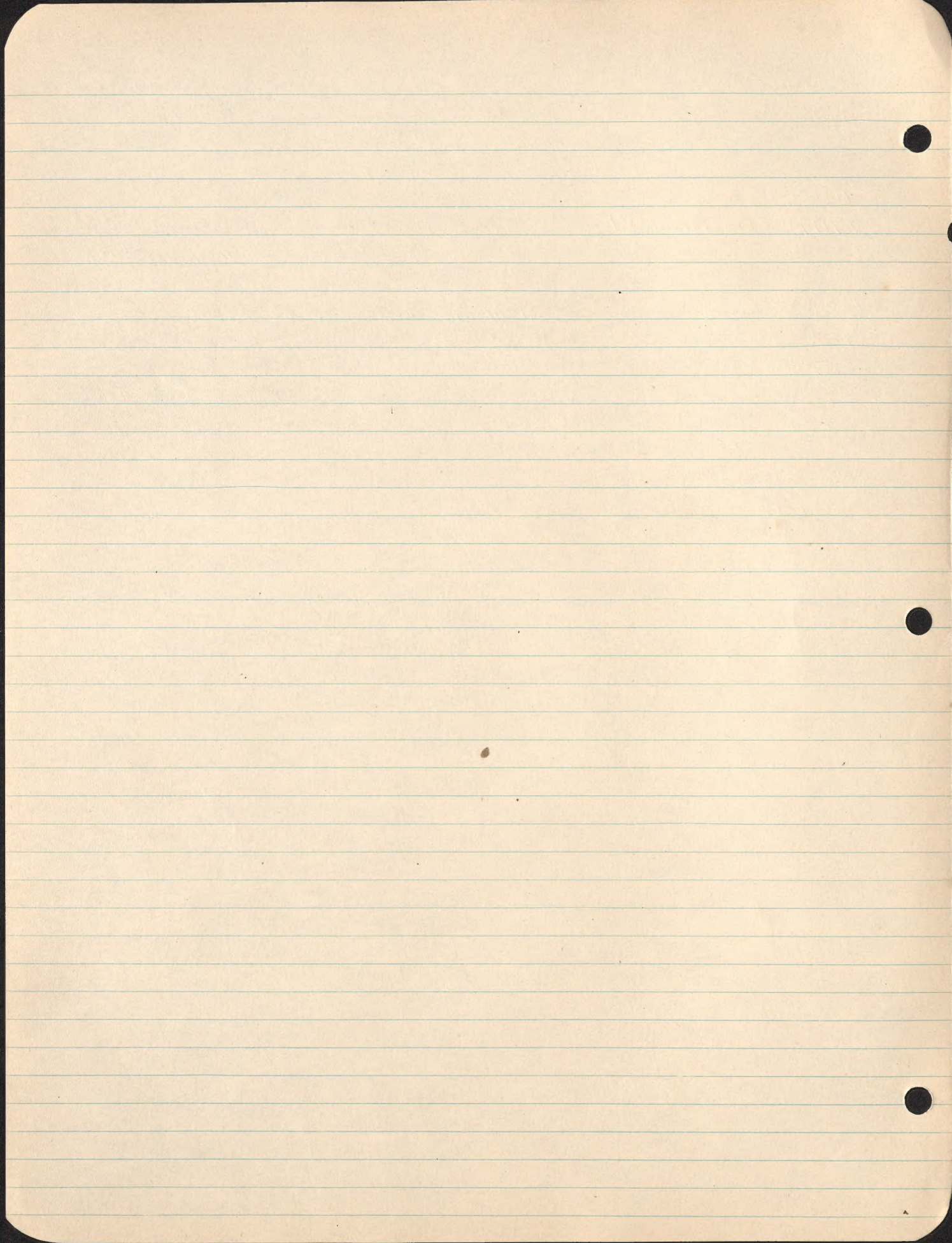
In scrub on dry conglomerate ridges. 4-6 m. Fl. ? Shrub-
tipped small tree with whitish papery bark.

55. Fern.

Minor sp. F. on nearly bare stony soil 20-40 cm.

86. "

C. locally 10-20 cm.



Brown Is.

Sedge & Pitchen-plant bog

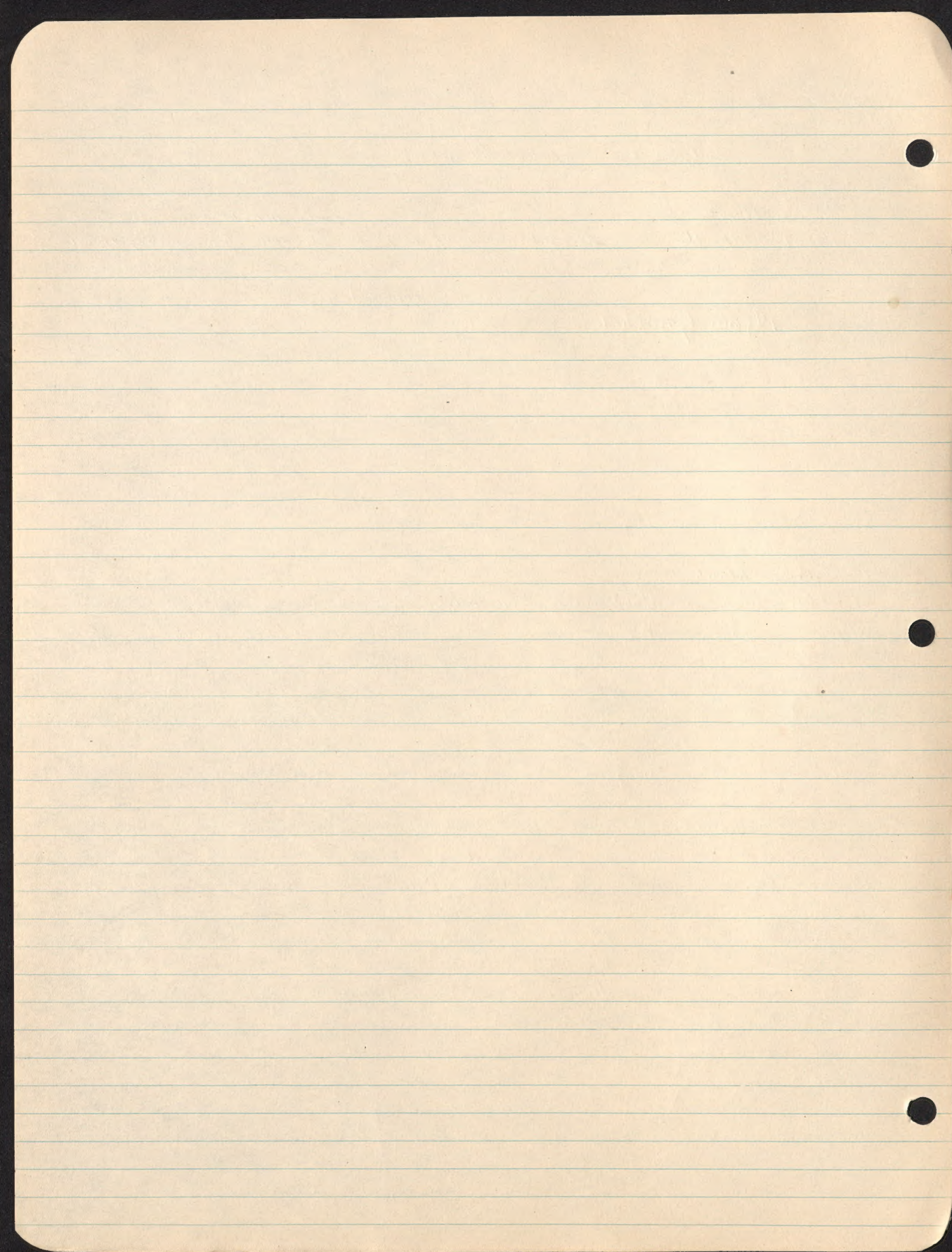
Woody plants

19601. *Myrica* *A. subscandens*, up to 1.5 m. Fls. with strong musky smell. - 2 m. reddish-br.
14. *Distylium* *ten. var.* V.A. Shrub tree a shrub 1-2 m. Sapry w.b. bark. (= *Distylium* & *Worcesteria* Bay form?)

Agave lycopodioides.

Herbaceous plants

19561. *Grass*. Scattered amongst sedges. ^{leaf} Stiff, ^{grass} 30-50 cm. Fls. br.-green with white
19600. *Gyp.* V.A. 80-120 cm. First leaves rigid & sharp pointed (*Stellaria*?).
09. *Utricularia* P. 15-40 cm. Fls. yellow, showy
10. " 25 cm. Fls. golden-yellow, reddish below = 19609?
11. " C. on open ground. 12-20 cm. Fls. deep yellow; large shield-like purple-br. calyx lobes.
12. *Broom* C. 10-30 cm. Showy pink fls. Leaves green.
13. " C. 10-15 cm. Fls. reddish pink. Leaves red.
15. *Phymatopteris* O. on sedges. 50-70 cm.
16. *Gynerium* *cernuum*. Ery. a sedges. 50-50 cm.
18. *Utricularia* O. 5-10 cm. Fls. purple with yellow spots.
19. " F. 10-40 cm. Fls. rich dark purple.
20. *Halimolobos* F. 50 cm. ascending, reddish branches. Fls. red. Distinct from other local sp. - longer leaves.
21. *Triscandium* Scattered in bog. 30-50 cm. Heads whitish
22. *Lyris* " " 25-40 cm. Very small yellow fls.
23. *Utricularia* 10 cm. Fls. yellow.
24. *Scirpus*? O. 50-70 cm.
25. *Strophoglossis* One example edge of bog. 80 cm. Showy rose purple fls.
26. *Gahnia* Ery. in dense patches 2-3 m. high. Leaves indurated? Fls. red.
27. *Triscandium* Edges of bog. 10-15 cm. Heads pale brown
28. *Grass* P. 10 cm. Heads only (inf. purple-br.).

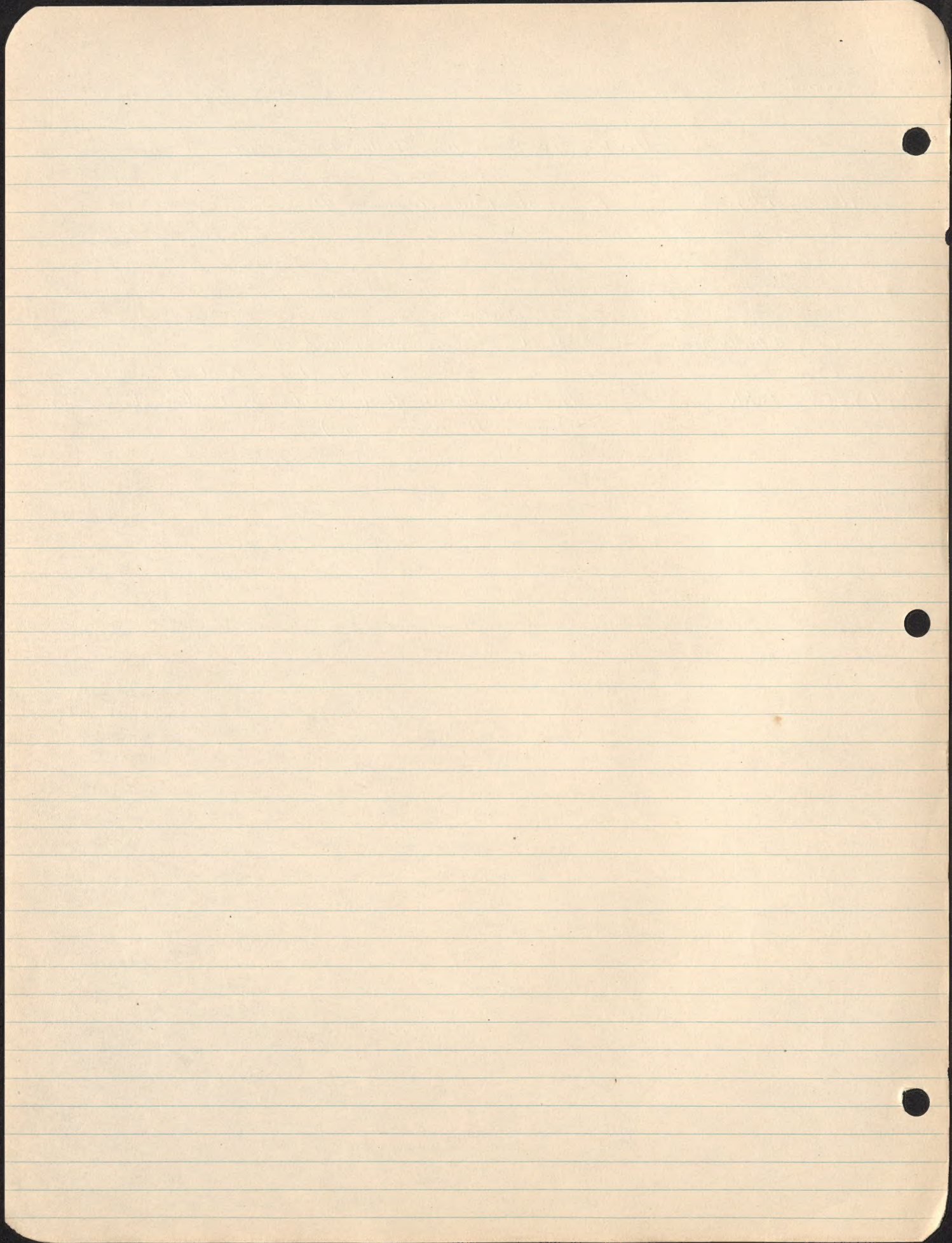


Brown's Rk.

Low gravelly banks & islands.

Shrubby growths on low floodbanks of creek.

19183. *Myrica*. F. shrub 1 m. Fl. cream. Fl. ?
86. *Borriaca phyllodactyla*. F. in shrubbery. Shrub \pm 1 m. Fl. yellow. Stamens.
19528. *Smilax chrysodactylon*. F. slender tree 56 m. Fl. golden yellow. Leaves glossy below.
29. *Euph.* Scattered drooping leafy 30-50 cm. Fl. white.
76. *Phyllanthus*. Herb 40-60 cm. Fl. reddish.
78. ? O. 1.5-2.5 m. Fl. red. Fl. 1-4 lobed. (Farlow's Rk. fls.).
19603. *Euph.* A. small leaved flood-resistant sp. 1 m. (Shrub) (Mossman
Tape & H. Gummer also).



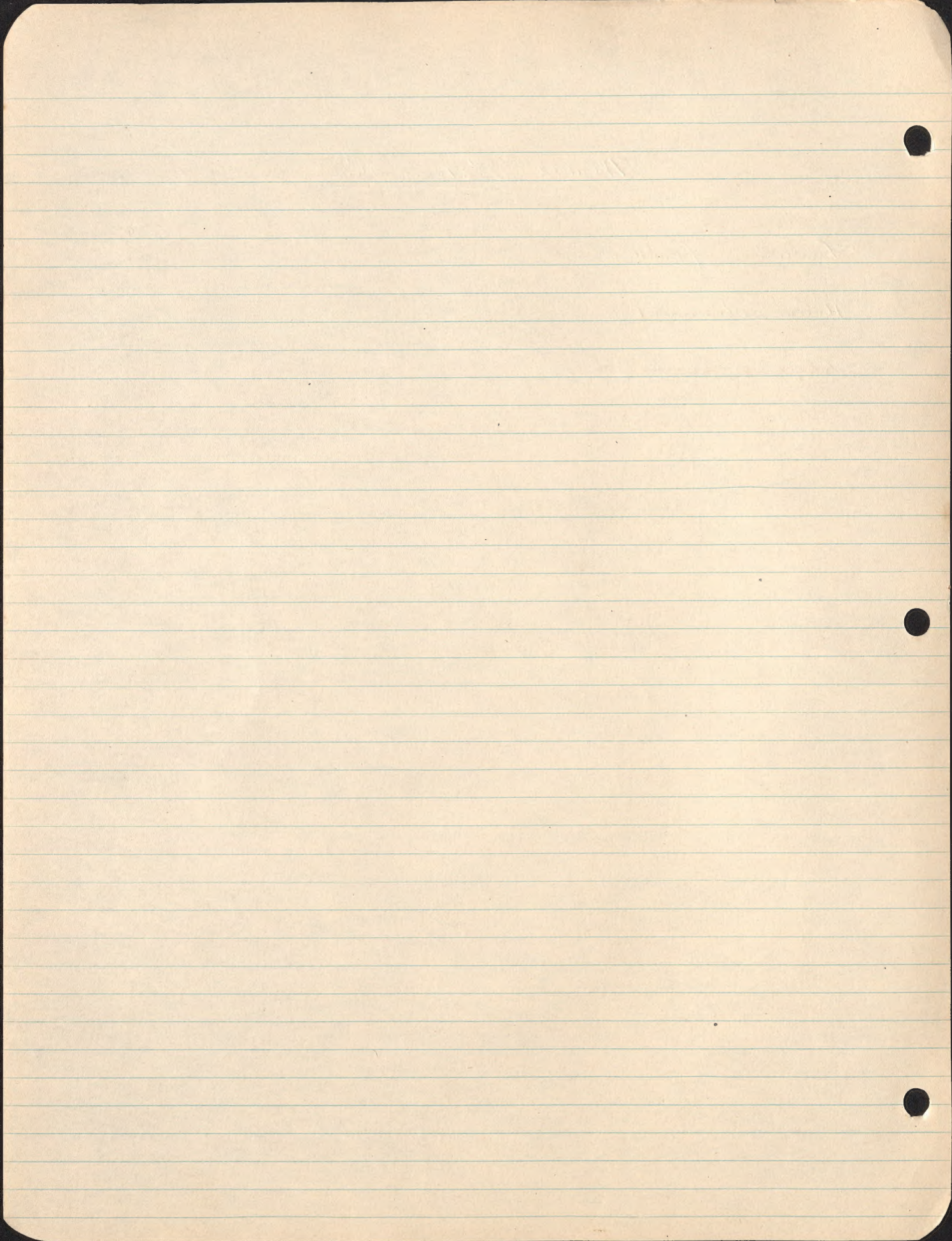
Winlock, Palavia River

alt. 150 m.

- Savanna forest -

River channel

Lagoons across river.



* Young shoots flowering after a grass fire which destroyed all aerial parts of the plant.

Woodwood/meromela of dry conglomerate hills.

Sandy flats - Woodwood

Meromela/Woodwood sandridges.

Winnick.

Savanna forest

Trees

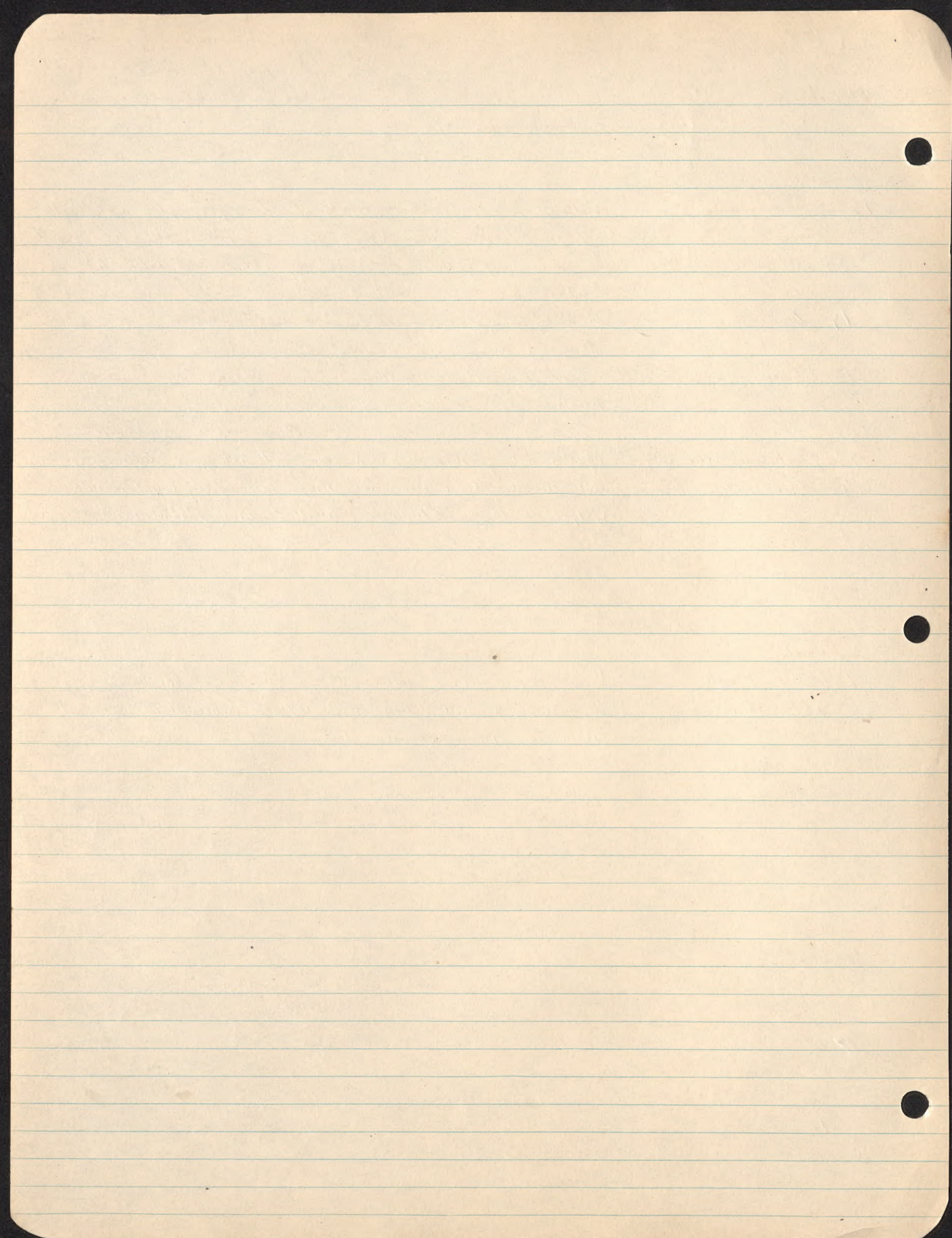
1966. *Tristamia* Scotland in Woodwood/meromela SE of dry conglomerate hills 6-7 m. Fls. ? Bark grey, fibrous (yellow fl. *Tockenhi* fl.)
 68. *Myrtus* ? C. on banks of gullies on rocky dry conglomerate hills. 4-6 m. Compact tree. Fls. ? Fl. green
 69. *Dodonaea* C. in dry open SE on crest of conglomerate ridges. 5-6 m. Fls. ? Fl. wings purplish. (sp. of *Tockenhi* fl.)
 70. *Calanthe* ? S. in SE of both sandy flats & stony ridges. 8-10 m.; branches pendent. Fls. ? Fl. yellow, delicate.
 71. *Bumelia* ? S. " " " " 6-8 m. Fls. ? Leaves grey-green. Pub. below
 73. *Metaleuca* var. C. in sandy gullies. 18 m x 20 m. Fl. pale green. Leaves grey green.
 74. *Eucalyptus* "Woodwood." This is meromela major tree of dry conglomerate ridges. 10-15 m. Fl. cream (small fl. sp. of *P. Bould* & *Brown* fl.).
 1970.3. *Acacia* A. in Woodwood SE of sandy river flats. 8-10 m. Profusion of golden-yellow fragrant fls. Phyllodes 3-nerved, narrow & lanceolate.
 16. *Metaleuca* C. on eroded banks of dry gullies. Sub-erect fl. 4-7 m x 20 m. Fl. wh. Papery grey bark.

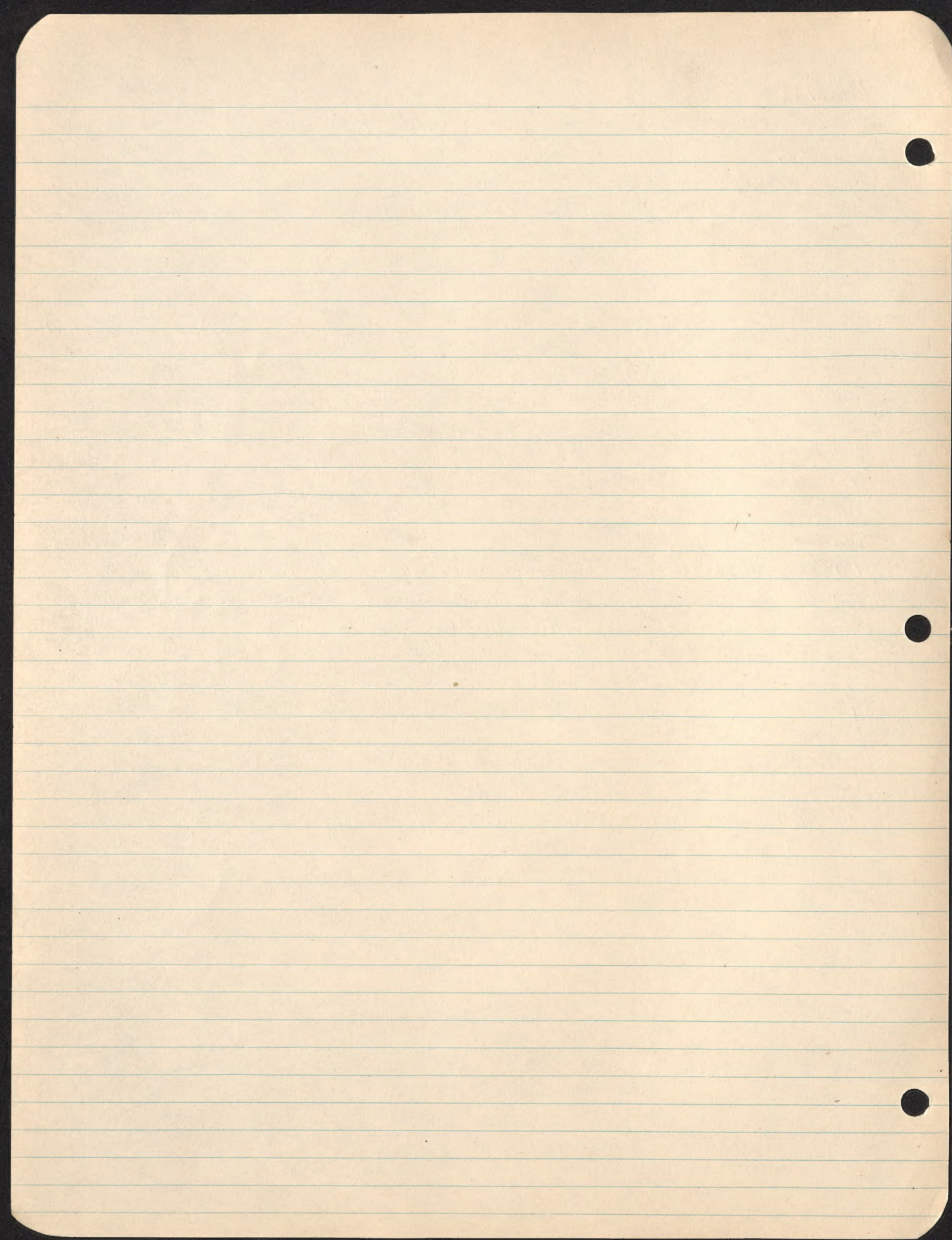
Shrubs

- 1966.7. *Epicand* C. on ridges of dry gullies. 1.5-2.5 m. Fl. wh. (*Tockenhi* & *P. Bould*)
 75. *Albizia* F. on rocky ground of conglomerate ridges. Subscandent 1-3 m. Fl. sometimes moniliform. Fls. ?
 * 95. *Tephrosia* River flats. Fl. purple.
 * 96. *Leysia* River plain. Fl. purple apik. Leafless young fl. shoots from horizontal a.s. stem

Herbs

- * 1968.9. *Chamaecrista* P. locally on river flats. 10-15 cm. Bracts wh. Flowering shoots after burning of the grass.
 1970.6. *Euph.* Amongst grass in a sandy gully. 6-15 m; bracts pale pink.
 07. *Amel.* On granite " " " " 18 m. Fl. pinkish-wh.
 14. *Comp.* F. dry sandy banks of gullies. 15-20 m.
 15. *Pong.* Amongst grass " " " " 30-40 m. Fl. yellow with wh. lobes
 * 20. *Comp.* Meromela/Woodwood sandridges. 20 cm. Rays wh. disk yellow. Deep, enlarged to fruit.
 * 21. *Leysia* " " " " 20 cm. Fl. purple. Deep, enlarged to fruit





Present these trees etc. seen in R-9.
at Iron Range & Togo Range.

Winlock

River channel

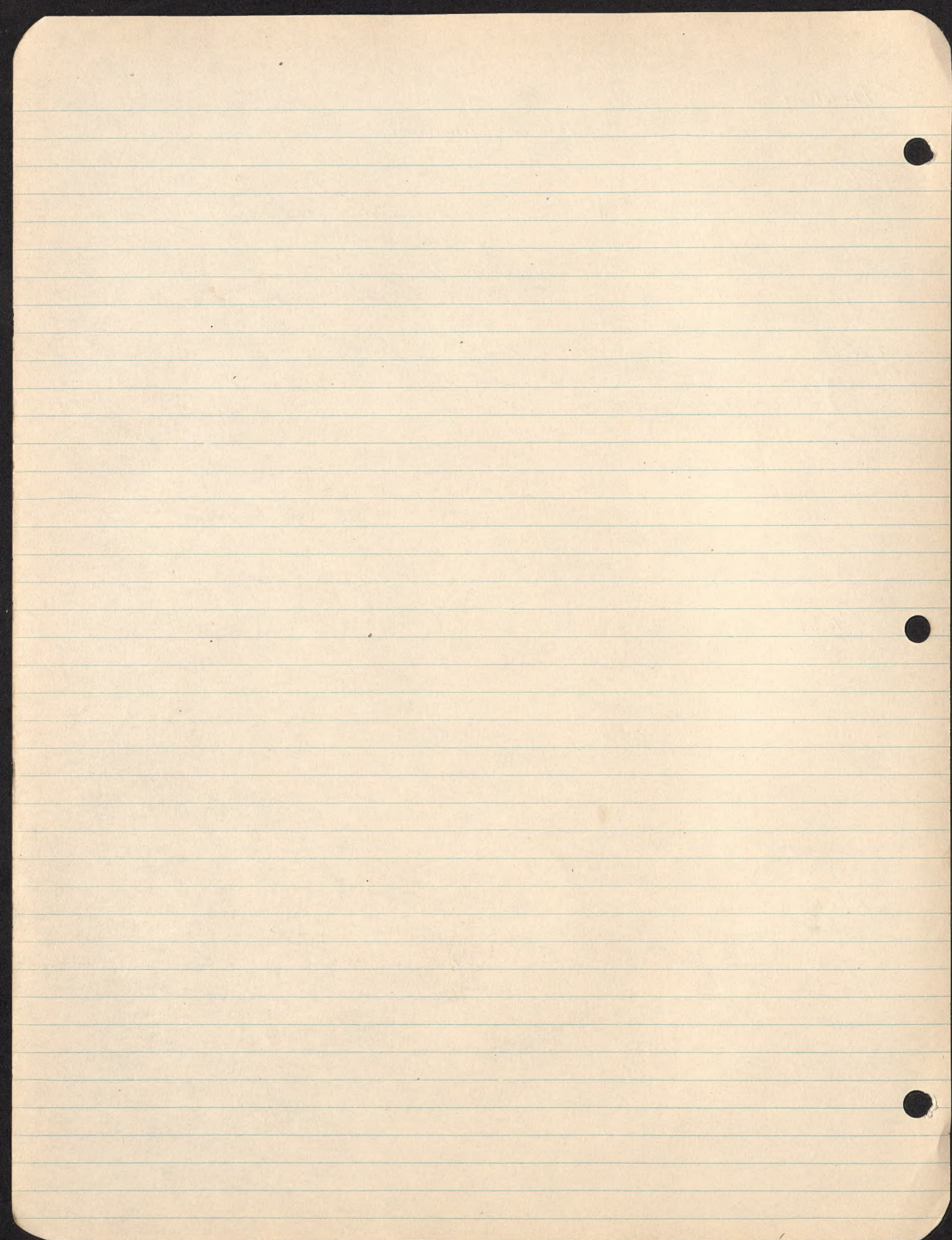
Trees

19687. *Batisaema* V. in sandy flood channel. 5-8 m. Fl. big, 6" red. Stem
erect, branches drooping.
- Pl. *Tanetia* F. in gallery woods. To 12 m. Fl. pr. white.
- Pl. *Huscant.* " " " 10-12 m x 15-20 cm. Fl. cream. Fr. ? (also *Bacora*
~~19717~~ ? River, & Iron Range). Leaves mango-like.
19717. ? Gallery R. F. tree 25 m x 40-50 cm. Fl. cream. Fr. dark red
= (brown-scented wood tree of Iron Range).
19. *Morinda* Gallery R. F. 6 m. Fl. cream. Fr. unripe

Shrubs

Herbs & grasses

- ~~19730~~ *Gynerium* O. in open sandy channels. 70-100 cm. Grayish (cf. *G. Mackii*).
19688. *Acanth.* Neg. in small groups on shady banks. 30-50 cm. Branching. Fl. dark purple.
19704. " O. on wet sandy banks. 40-60 cm. ± fls. Fl. purple.
05. *Phyllanthus* ½ shrub on moist grassy banks. Herb (?) 50 cm.
18. *Phrygnanthes* Shrub on sandy islands. 7-8 m. Slender columns.



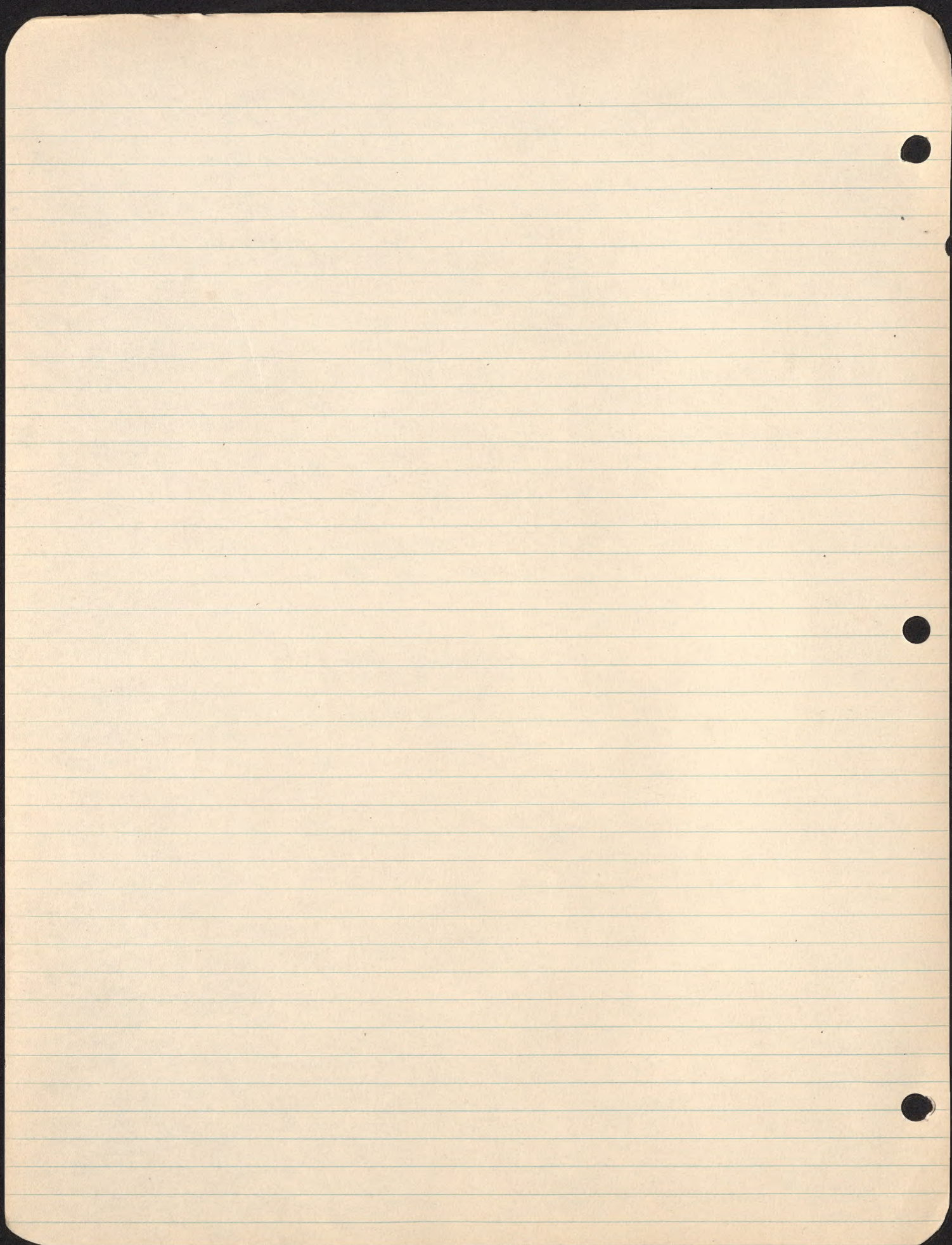
Winlock

River channel

Plain Grass

19693. Tucumciti.

In gallery woods, 5-10 m. fls. yellow. Fls. fr. - yellow 10-12 m. ^{X4.4.3-}



Wombak

Lagoon across river

Trees

19689. *Myrsine*

Sh. char. small tree (also in banks) 5-7m. Fl. wh. smooth grey bark
& drooping branches (Tandanya, Pango, etc.)

Aquatic herbs

19677. *Najas*

O. in shallows. 50-60 cm. Fl. green

68. *Utricularia*

Free-floating sp. P. in lagoon. Fl. pale yellow. Petals violet.

97. *Limnanthemum*

A. fringed wh. corolla with orange tube.

98. *Wynophloeus*

A. Fl. wh. 10-12 cm. diam. delicately perfumed

19702. *Limnanthemum*

A. Fl. orange

Herbs, etc. of moist ground

19680. *Ternstroemia*

Moist grassy banks. 20-25 cm. Fl. purple.

81. *Ternstroemia*

P. on moist edges. Branches up to 50-80 cm. Fl. white

82. *Gynerium*

tufted " " 20 cm.

83. *Gynerium*

P. moist grassy banks. 40-60 cm.

84. *Ternstroemia*

P. " " " ascending. Fl. green with purple lobes.

85. *Filipendula*

A. under grasses " " ± 2 cm.

86. *Wahlenbergia*

C. locally on grassy edges. 40 cm. Fl. violet.

74. *Gynerium*

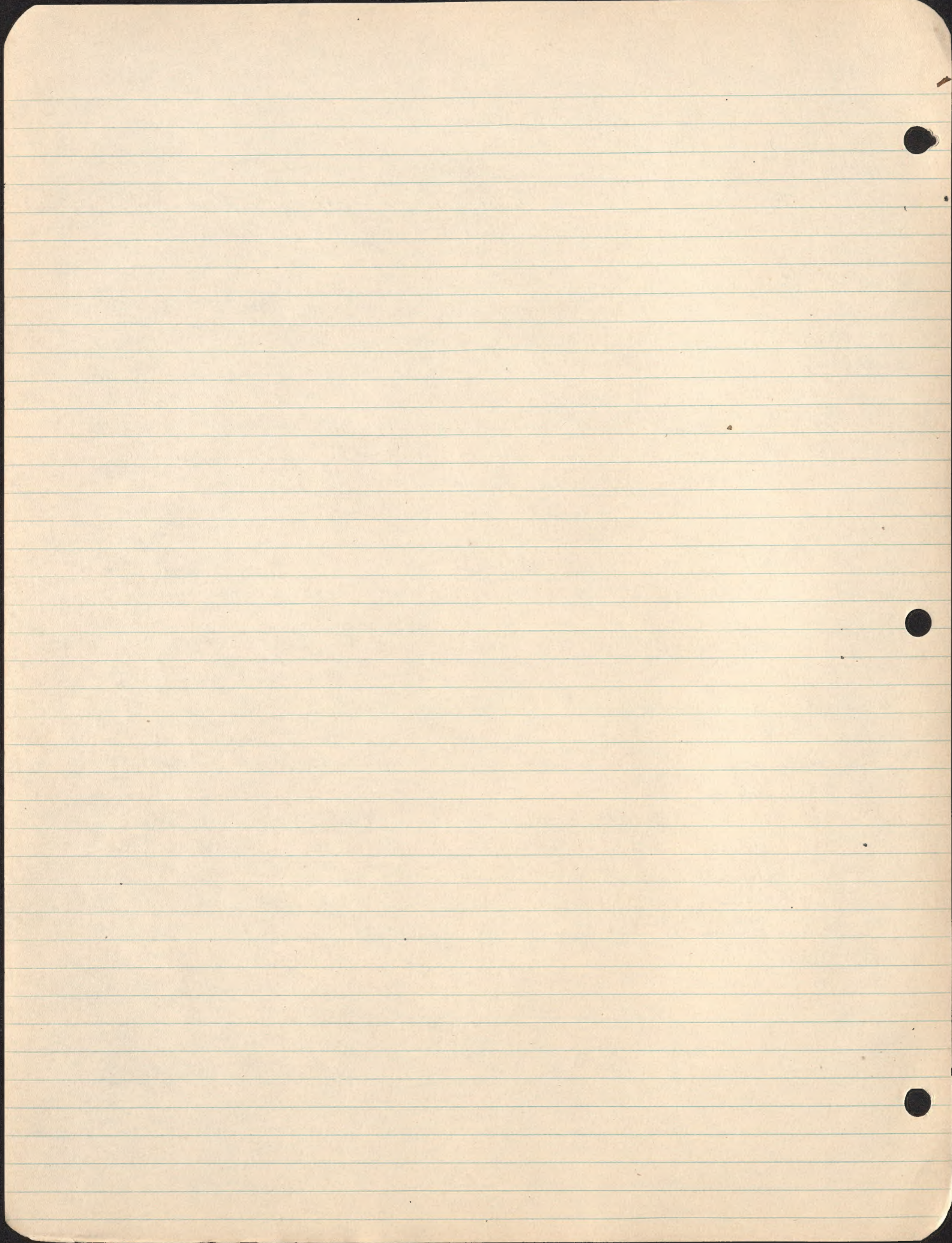
Few plants on moist banks. ± 1 m., and few stems.

19700. *Burchardia*

C. grassy edges. 40-70 cm. Fl. white.

01. *Hydrocotyle*

C. " " 15-50 cm. Fl. purple above, yellow below

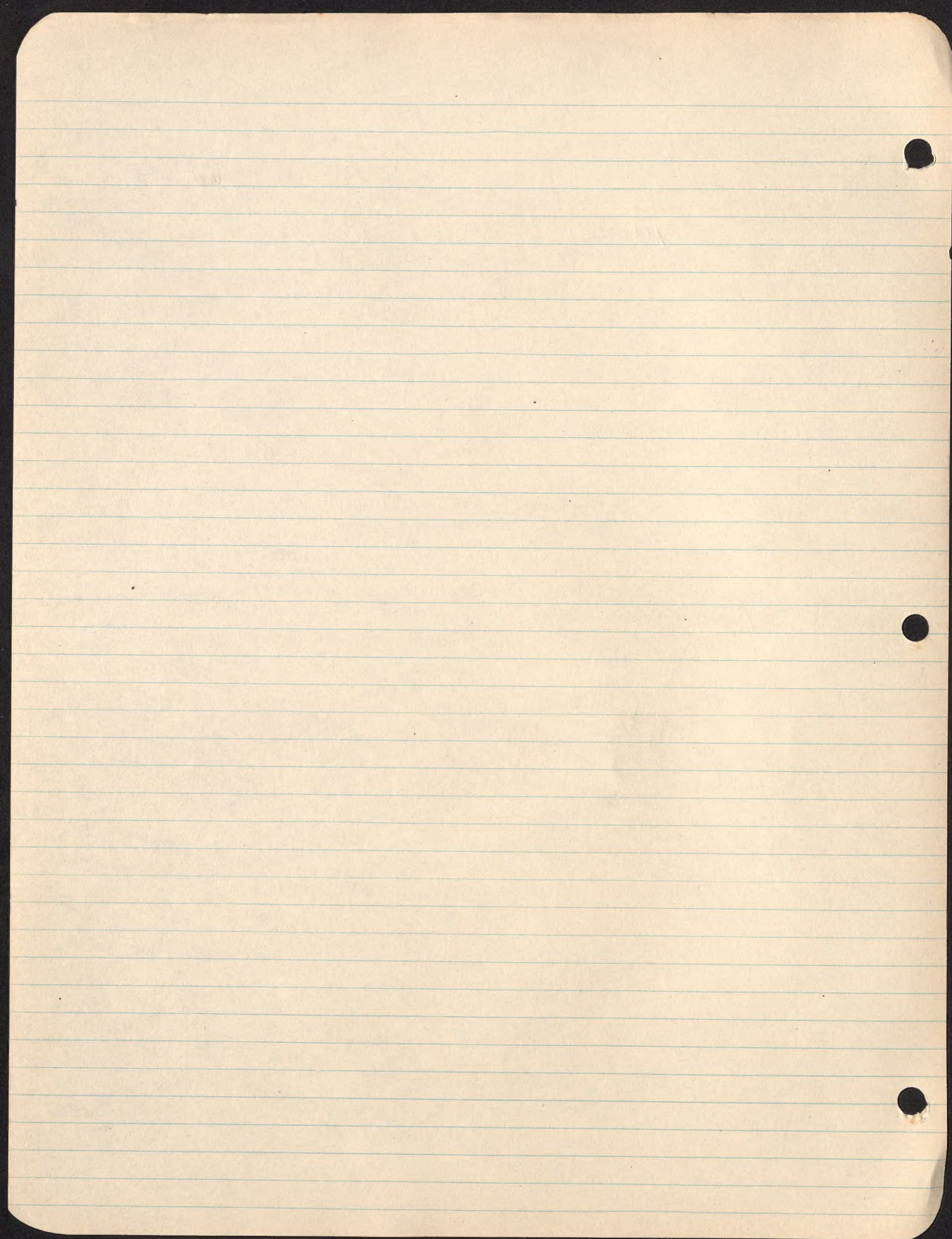


alt. 125 m.

Arche River, Minto - Boen Road

River channel

Savanna forest



Archer River

Islands of sand & silt
Thin rain forest on islands & flood banks.

River channel

Trees

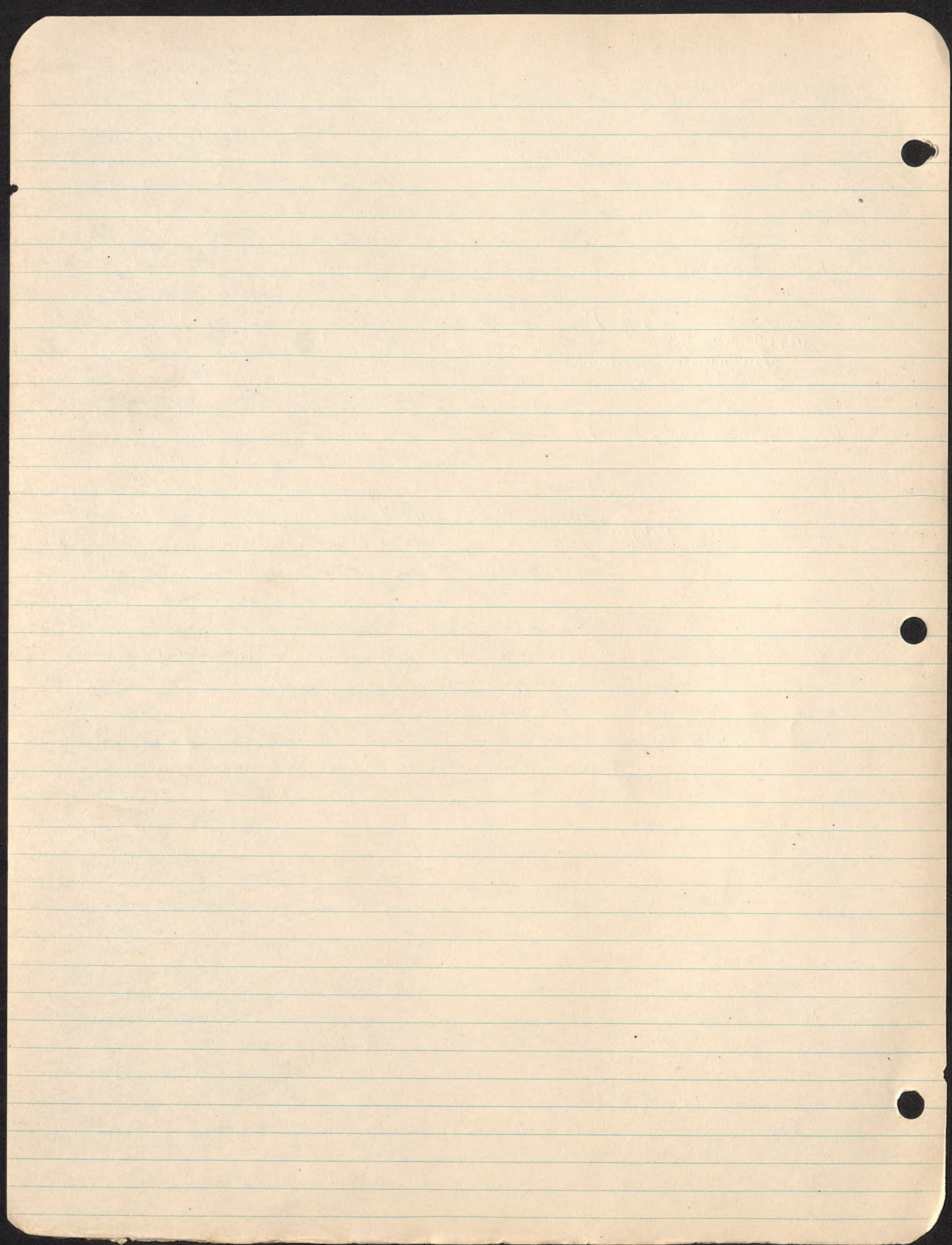
19727. *Diospyros* C. on islands of sand & silt: tree or shrub 3-6 m. Fl. [?] fl. unripe.
29. *Eriocaulon* On an " " tree a shrub 3 m. Petals wh. to yellow or salmon-pink; filaments & stamens red. Fl. ?
30. (*Myrsine longifolia* ?) P. on islands of sand & silt. (line of water's edge). 6-8 m. Fl. wh. Smooth grey bark, branches not-fused (Landinga, Pongapong)
31. *Barringtonia* C. in thin R. 6-10 m. Lower mangrove-like Fl. wh. Fl. ? (also Pasore & Palovina River)
47. *Tillandsia* P. on dry open banks subject to flooding. Deciduous (then leafless) tree 4-6 m. Fl. yellow; filaments red. Inflorescence 1-2 ft. Full bloom
48. *Occia* C. in sandy & rocky bed. 10 m. to 30 m. Fl. ? Hard, perianth ⁶⁻⁸
49. *Rhus* Islands of sand & silt: tree or shrub 4 m. Fl. ? Fl. unripe
53. *Melaleuca* ^{subgenus} ~~var.~~ Chan. of sandy flood bed. "Grows to a large size - up to 25 in height & 50-60 cm. dia. - but as a rule the trees are bent low or lying prone by the force of flood waters. Fl. yr-wh. Leaves grey-green. Bark grey, fibrous, papery.
54. *Barringtonia* C. at low water of low-branches. 6-8 m. Fl. red. Semi-deciduous & breaking into young leaf.

Shrubs

19733. *Occia* of *holosericea*. O. in sandy bed. 3-4 m. Fl. yellow. Lignous grey pub. fl. yellow.
66. *Plumbago* *graylamia*. 1/2 shrub in thin R. Prostrate or subprostrate, over 1 m. Fl. wh.

Herbaceous plants

19732. *Kyllinga* ? C. moist beds of sand & silt. 8-20 cm. Terrestrial, fleshy.
34. *Finlaysoniania* P. " " 10-20 cm. 2 fleshy, greenish.
35. ? O. " " 5-15 cm. Fl. wh. Plant reddish
36. *Hydrocotyle* P. " " 15-18 cm Fl. pale purple above, yr-yellow below.
37. *Eragrostis* Unk. " 6. " 60 cm.
38. *Trapa* / *cyperoides* on sand.
39. *Panicum* Moist sand. 30-50 cm.
40. " Beds of moist sand & silt: Spreading 10-30 cm.
41. " " " 70-100 cm.



Goche River.

River channel

Herbaceous plants, cont.

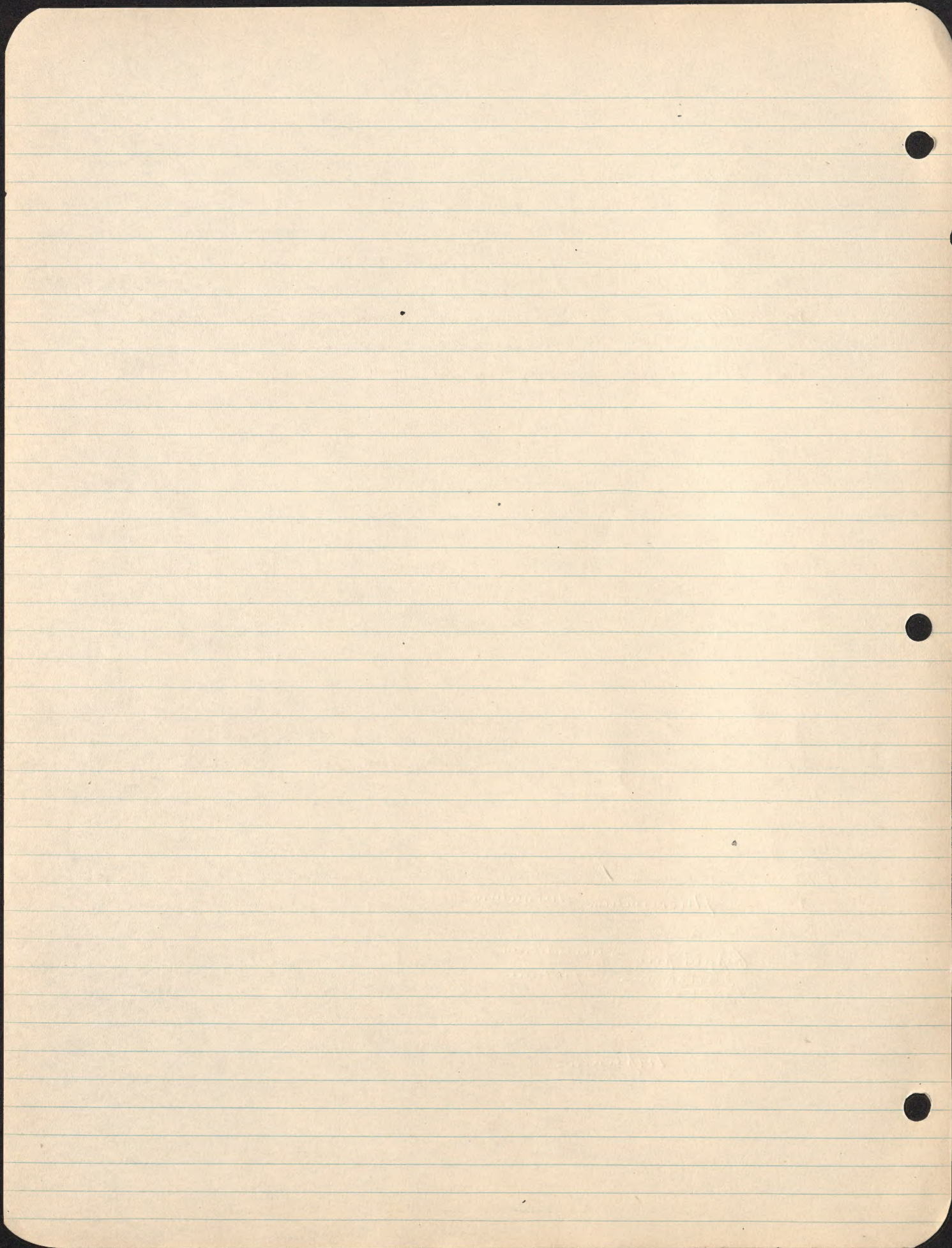
19742. *Cyperus* ^{less f.} A on moist sand & silt. 12-30 cm.
 43. ? " " " " Prostrate, 15 cm.
 44. *Cyperus* Eng. in $\frac{1}{2}$ shade on silt & banks. Much & spindly 40-50 cm
 45. *Poa* In " " " " Fl. wh. Prostrate \pm 70 cm. long.
 50. *Cyperus* O. in open sandy channels. 70-100 cm. Grayish
 51. " 1 plant in dry sandy bed. 80 cm.
 52. *Marrubia* Eng. on wet mud. Herb.

Climbers

19746. *Tenacissima* cf. *naga*. Scandent shrub \pm 20 m. Fl. yellow. Fl. reddish,
 more conspicuous than the flowers.
 57. *Paradaya* C. in thin P.F. 10-15 m. Strongly fragrant w.b. fl. Fls. 2-4 lobed

Trees, cont.

19755. *Geosmodium* F. on alluvial banks of another river. Tree or shrub 3-5 m. Fls. ?
 59. ? *Micromelum* *quincellum* " " 6 m. Fl. buds only. Fl. unisexual.
 61. *Mallotus* O in thin P.F. 5 m. Fls. Leaves convex
 64. *Boerhaavia* ^{apocynifolia} " " 8-10 m. Fls. greenish. Fl. ?
 65. *Boerhaavia* ^{corymbosa} F. " " \pm 25 m x 40-50 cm. Fls. wh. (also *Boerhaavia* &
 Boerha. said to bear a redish red fl.)
 67. *Euphorbia* C. in thin P.F. 6-8 m. Fl. cream. Fl. ?
impluvium



Open SF of granite ridges.

Archer River

Savanna forest

Trees

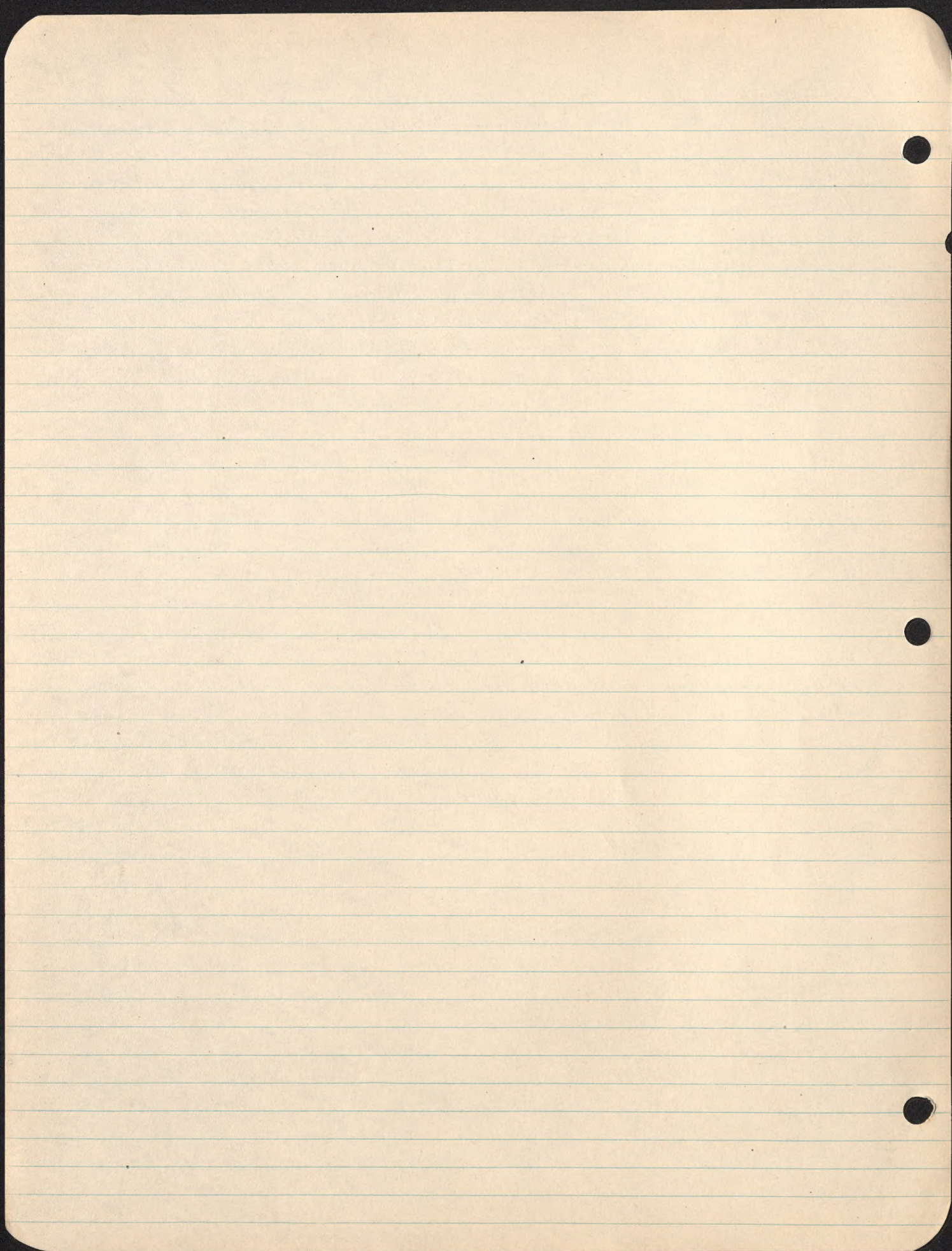
19760. *Erythrina* S. up to 20m x 25-30m. Fls. orange red. Deciduous & leafless; upper stem & branches prickly.
62. *Eucalyptus* "Frontal" P. in open SF of granite ridges. 10-12m x 5-8.5cm. Fls. ?
(C. on band ridges from La Passee south)
63. *Adenanthe* Sporadic. 8-10m x 20m. Fls. ?
72. *Eyocarpus* O. on granite ridges. 2-5m. Lowest pruned

Shrubs

(also Montezuma)

Herbs

19756. *Muhlenbergia* A. amongst dry grass in sandy SF. 30-40cm. Thyr. violet fls.
58. *Lobelia* A. " " " 30cm. Fls. purple; base of lower lip white
73. *Verb.* P. sandy granite ridges. Mostly below 1m. Fls. purple. Very fully fringed.
74. *Camp.* C. " " " Perennial 60-80cm. Fls. yellow. Very succulent. (Montezuma)
74. Deep 1st root.

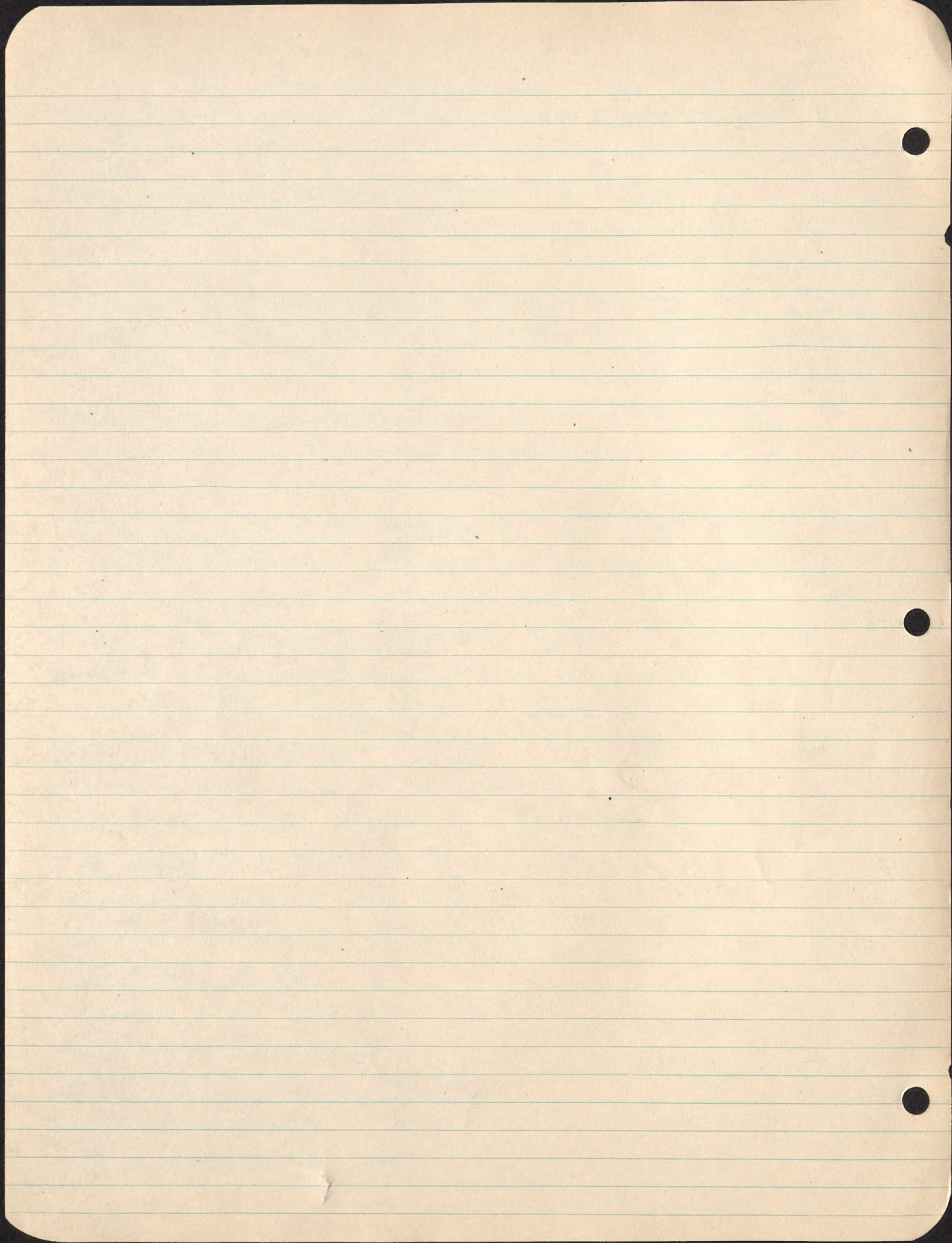


Green

911: 200 m.

Savanna forest

River channel



Dry, thinly timbered granite ridges.

Tree

Savanna forest

Trees

19820. *Brachyhiton* ^{*auriculifolium*} Kurrupang. S. 10-12m. Fl. yr-br. Deciduous or semi-deciduous: now with few leaves.

21. *Albizia procera*. Several trees in a dry gully. 6-8m. Fl. ? Greenish & fleshy look.

Shrubs

19774. Legum.

F. on dry thinly timbered granite ridges. 70-80m. The very purple fl. Young flowering stems appearing after fire.

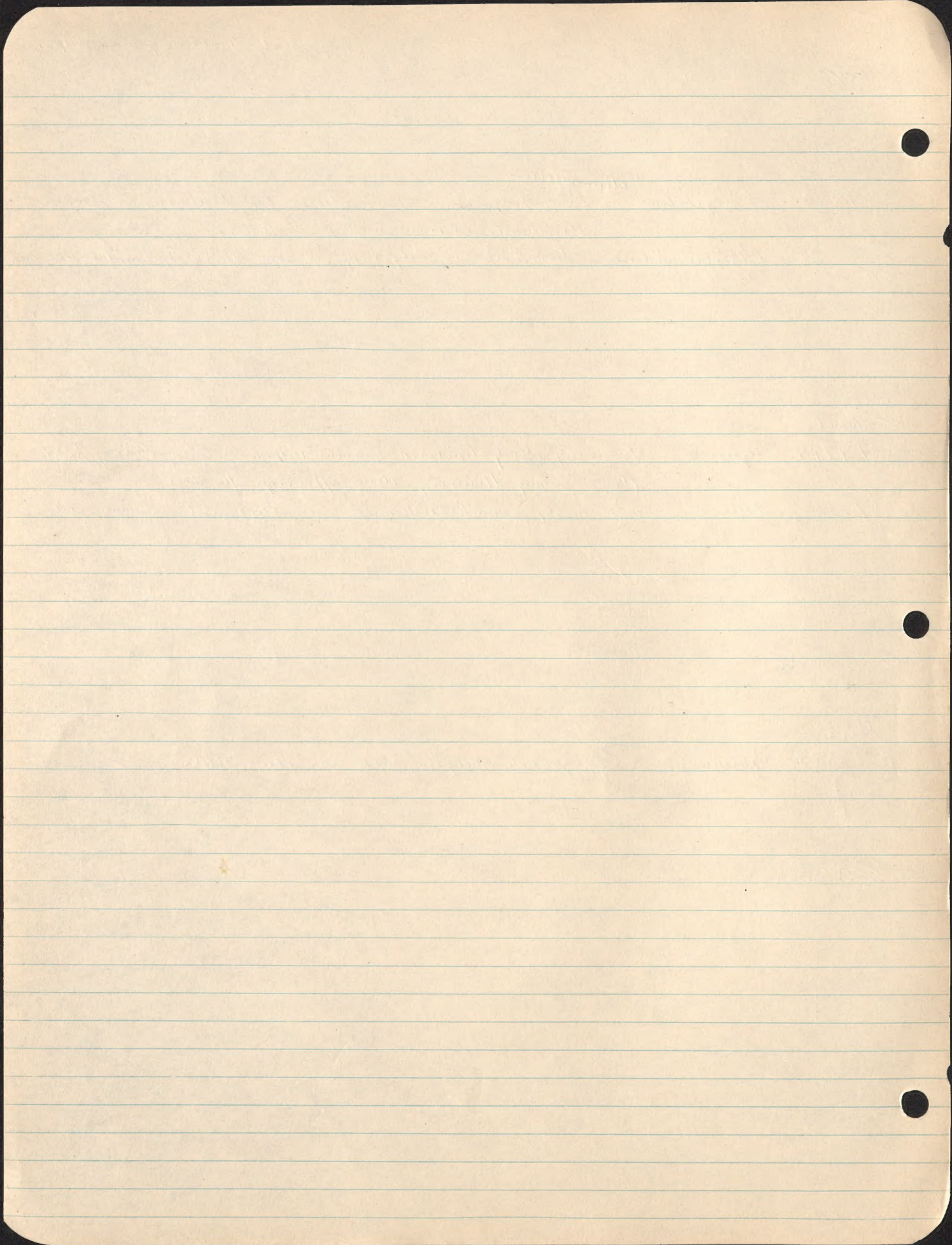
19822. Vitac.

S. on dry granite ridges. 40-50m. Fl. yr-br. Fl. ? Some small.

Herbs

19823. Euphorb.

Dry granite ridges. 30-40m. Fl. yellow



Tree

River channel

Trees

Salween

19778. *Melastoma laevigatum*. Fl. cream. Tree of rocky & sandy riverbed. 6-20 m X up to 50 cm.

Fl. cream. Leaves grey green. Grey peeling bark.

19779. *Glaucocarpus arbutifolius* F. in sandy & rocky banks. 6-8 m. Fl. cream. Fl. blue-grey.

Twisted slender stems from a common base.

80. *Morinda* F. on thinly limbed floodbanks. Tree a shrub 3-4 m. Fl. cream.

85. *Callistemon viminalis* F. in open sandy & rocky bed. Tree a shrub 3-6 m. Fl. bright red.

88. ~~*Archonotus arbutifolius*~~ F. thinly limbed floodbanks. 10 m X 30-35 cm. Fl. cream
Fl. ? (mango-like sp. of *Archonotus*, etc.).

89. *Acacia*. F. sandy & rocky beds. Tree a shrub 3-4 m. Fl. yellow. Compact rounded habit; leaves silvery-grey.

96. *Tristania grandiflora* F. thinly limbed sandy low floodbanks. 7-12 m X 30 cm.
Fl. white. Bark grey, shallowly fissured.

1980⁴. *Myrsine longifolia* F. open sandy & rocky bed. 3-5 m. Fl. wh. Branchlets usually
sub-pendent; bark smooth grey (N. to Lanchang - Th. 1).

19809. *Tournefortia* 1 example on thinly limbed sandy floodbank. 3 m. Fl. gr.
with wh. lobes. Fl. wh. fl. g. Numerous erect stems, freely
branched & forming a large clump.

Shrubs

* 19810. *Glochidion*. F. on thinly limbed floodbanks. Tree a shrub 3-4 m. Fl. & fr.

17. *Albizia* Open rocky bed. 1-2 m. Fl. yellowish.

18. *Passiflora* " " banks. 2 m. Fl. white.

19. *Euph.* (*Bythanthus*?). C. open rocky bed. 1 m. Fl. br. Fl. & fr. resistant sp.

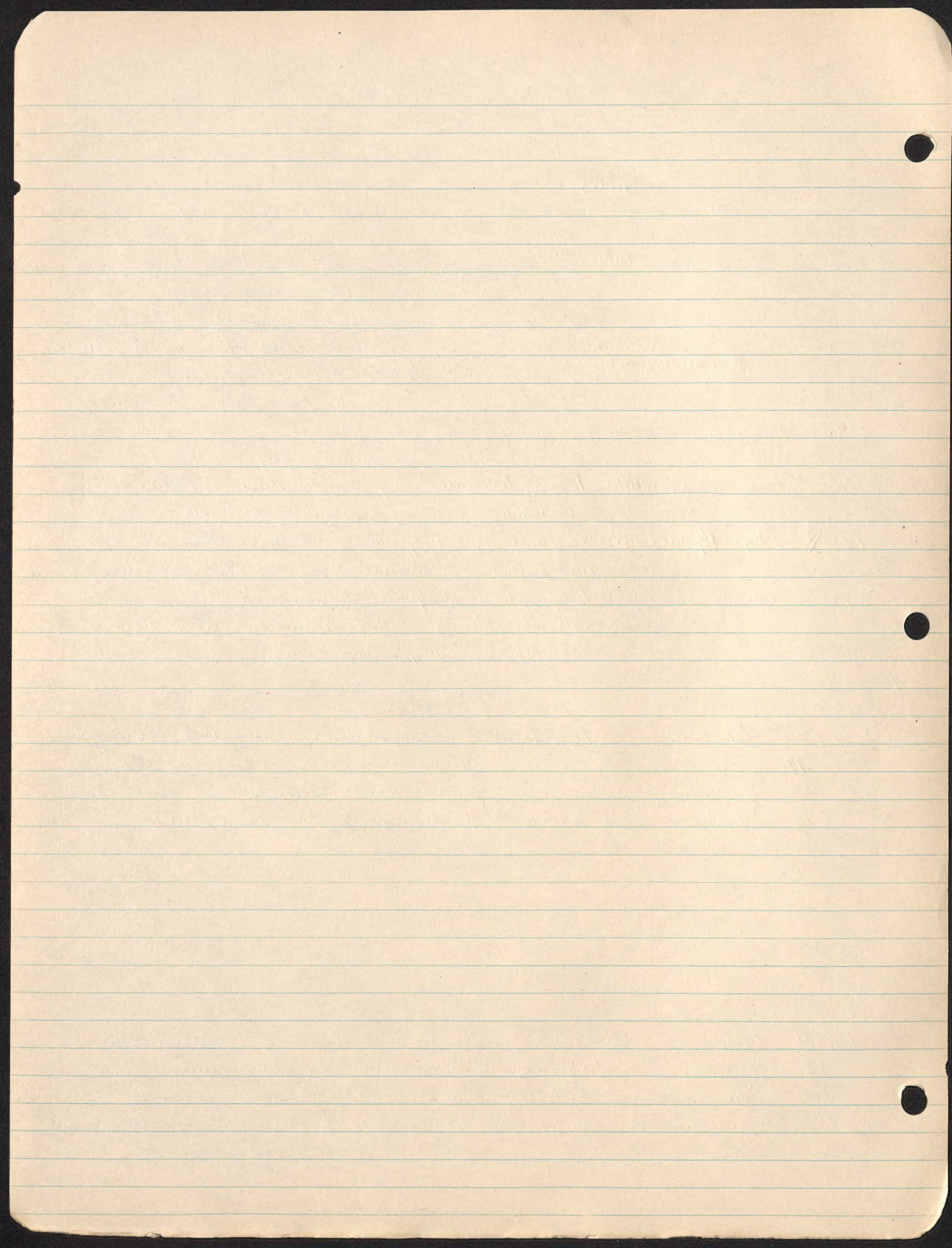
Trees, cont.

19811. *Euph.* Open sandy floodbank. 5 m. Fl. gr. Fl. blackish purple.

12. *Macaranga*. Grey locality " " 4-5 m. Leaves very glaucous below.

14. *Euph.* F. a thinly limbed floodbanks. 10 m. Fl. yellow. Much branched bushy.

15. *Terminalia*. F. sandy & rocky floodbanks. 4-6 m. Fl. ? Leaves very convex.

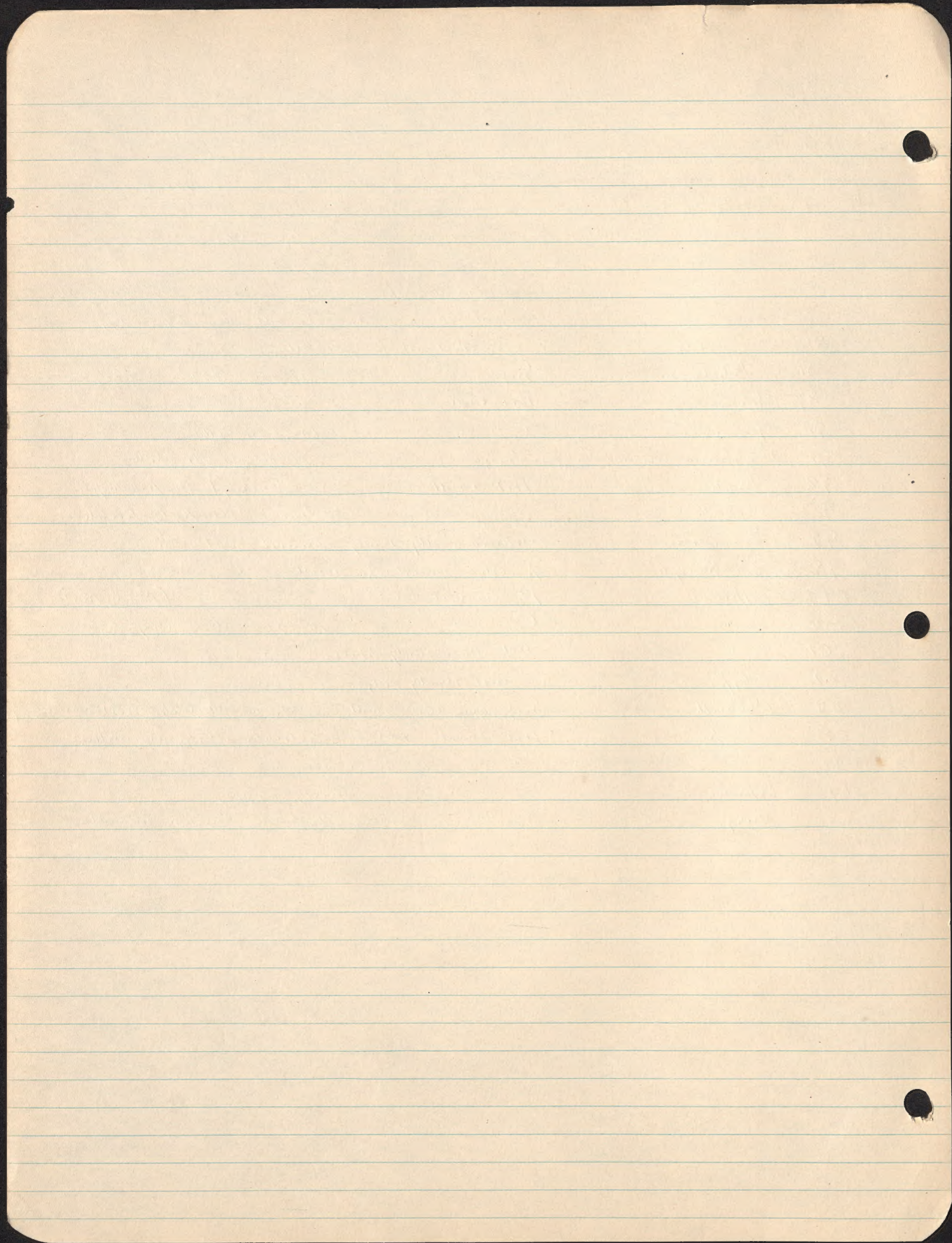


Boen

Ravin channel

Herbs

19775. *Phyllanthus sanguinalis*. C. moist open banks. 60-100 cm. Fls. yellow.
76. *Typ.* S. in stagnant pools in open rocky bed. Frs. mud-like, 50-100 cm.
77. *Typus*. S. open sandy bed. Stems ± 1 m. Leaves grey-green.
81. *Funaria* F. on moist open sandy bed. 31-50 cm.
82. *Alcanth.* O. wet sand in open river bed. Ascending 10-20 cm. Fls. lavender.
83. *Lysodermis* Matted between rocks in open bed. Stems ± 1 m. long.
84. *Typus* F. on wet sand in open bed. 40-70 cm.
86. *Phyllanthus* Erag. " " 6-15 cm. Fls. wh. Fls. fleshy.
87. *Typ.* M. sand " " 20-25 cm.
90. *Funaria* C. " " " ± 1 m. Fls. yellow.
91. *Polygonum orientale*! Erag. " " " 80-100 cm. Fls. white.
92. *Typus* M. sand " " 3-5 cm. (creeping). Fls. pale purple.
93. *Alcanth.* " " " 30-40 cm. Fls. pale purple.
97. *Eragrostis* Scattered in dry sandy channel. 80-100 cm.
98. *Pimbristylis* Sparckii moist open sand. 12-20 cm.
99. *Typus* P. on wet " " 15-25 cm. (Stuck to the soil).
19800. " C. " " " 10-15 cm. Fls. grey-green.
01. " M. open sandy places. 30-50 cm.
02. *Typ.* O. wet muddy slopes. 60-80 cm.
03. *Alcanth.* Erag. open wet sand. 20-30 cm. Fls. purple. Frs. ascending.
05. *Comp.* M. sand. 5-10 cm. Fls. wh. Fls. fleshy, aromatic.
06. ? J. " " 10-20 cm. Fls. wh.
07. *Typus* S. " " Fls. fleshy creeping.
08. *Erag.* J. " " 20 cm. Fls. pink. Frs. ascending.



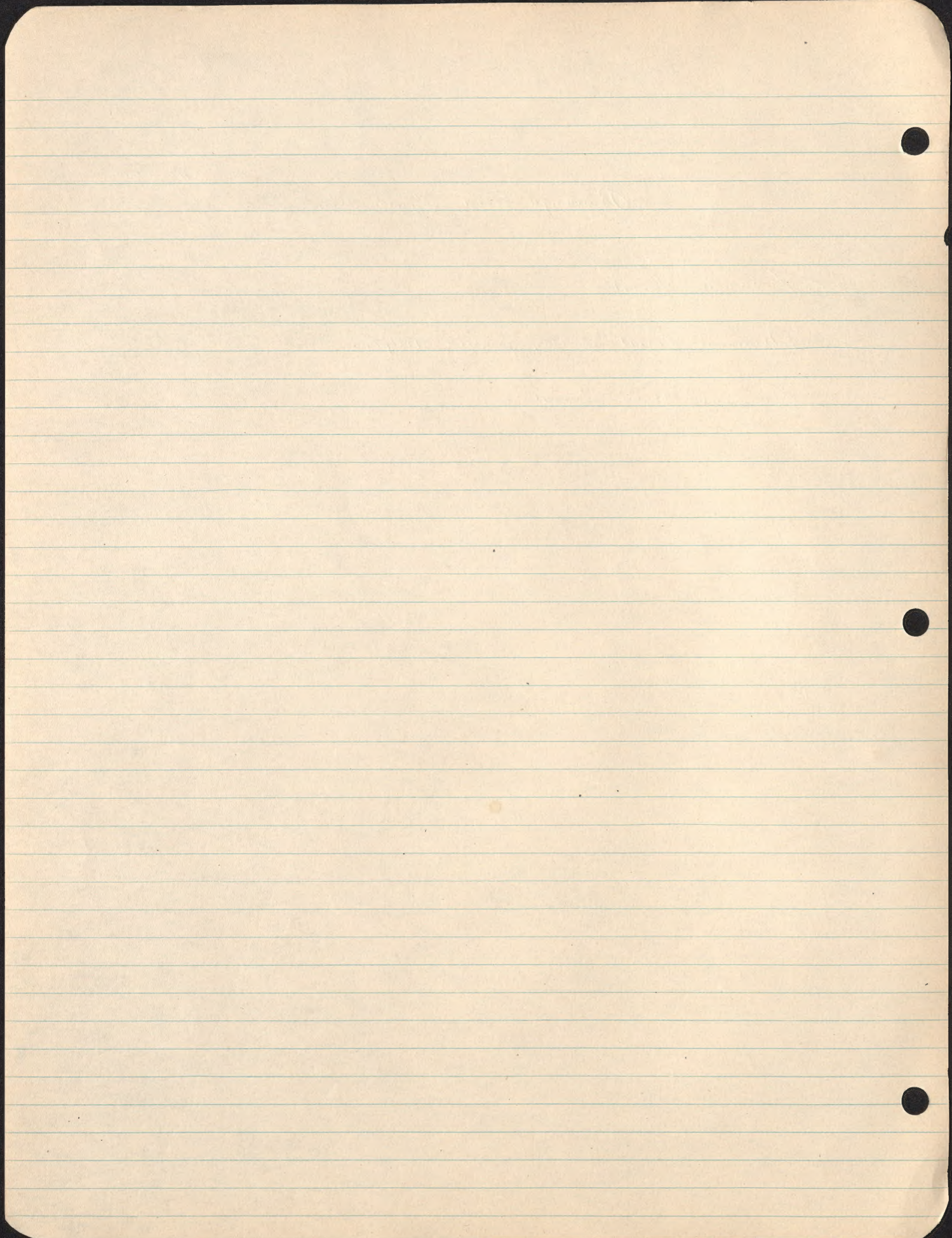
alt. 240 m.

Bonanga Creek, Black River

Savanna forest

Monsoon forest of dry granite ridges

Riverine rain forest.



Bananga Bk

Savanna forest

19838. *Swietenia thurkei*. F. 6-7m. x 12-15cm Fl. cream.

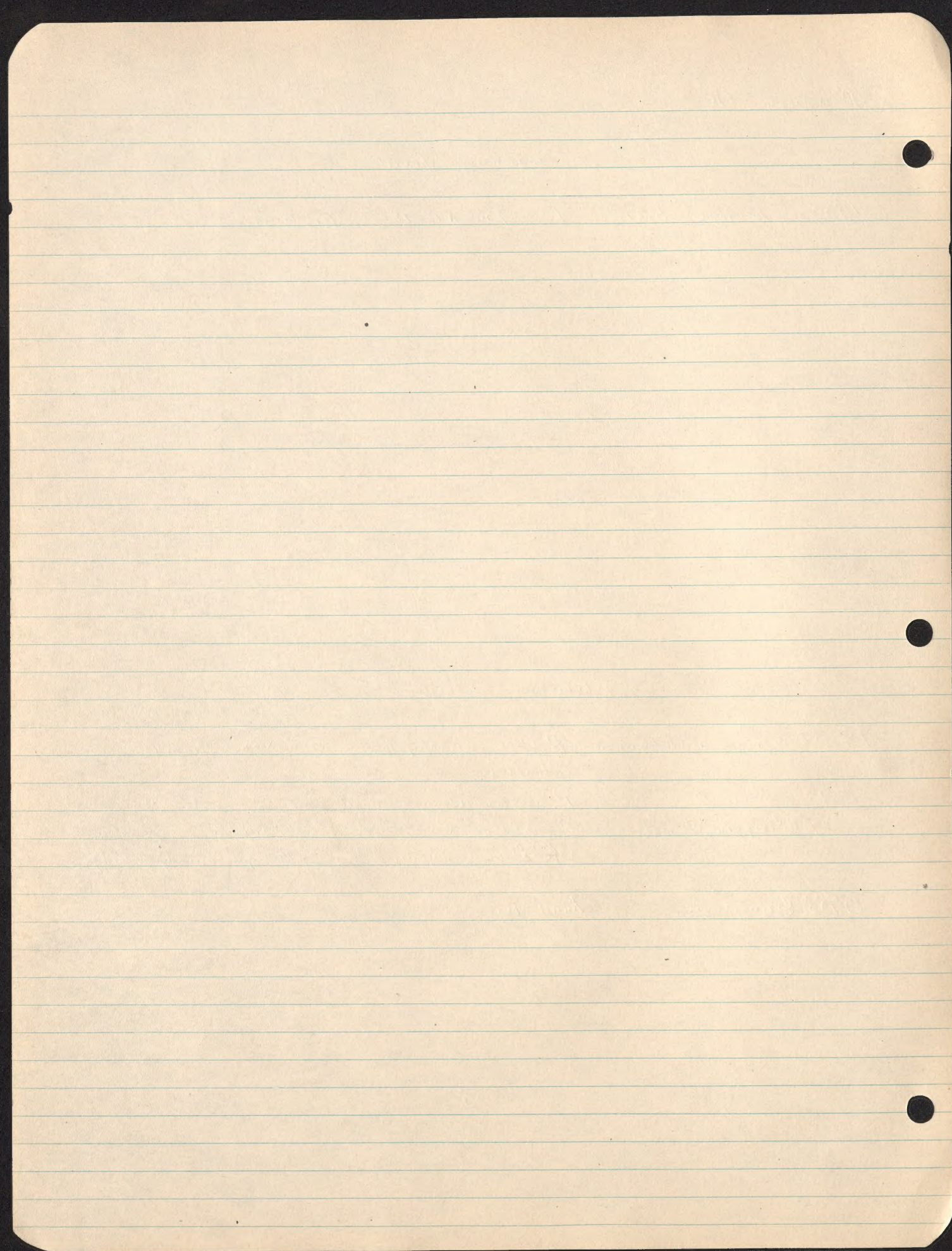
Monsoon forest

19832. *Pongamia malabaricum*. A char. overtopping tree to 25m x 1m. Fl. red. Deciduous
& leafless.

33. *Albizia*. P. on leaf strewn ground. 20-35cm. Fl. purplish pink.

37. *Albizia* of *juvencus*. C. 8-15m. x 15-25cm. Fl. ? Fl. reddish. Semi-deciduous
leafy base of leaves. Bark yellow-gr, bumpy & flaky.

19755. *Homalium*, Small tree



Bananga Bk.

Rivine rain forest

Trees

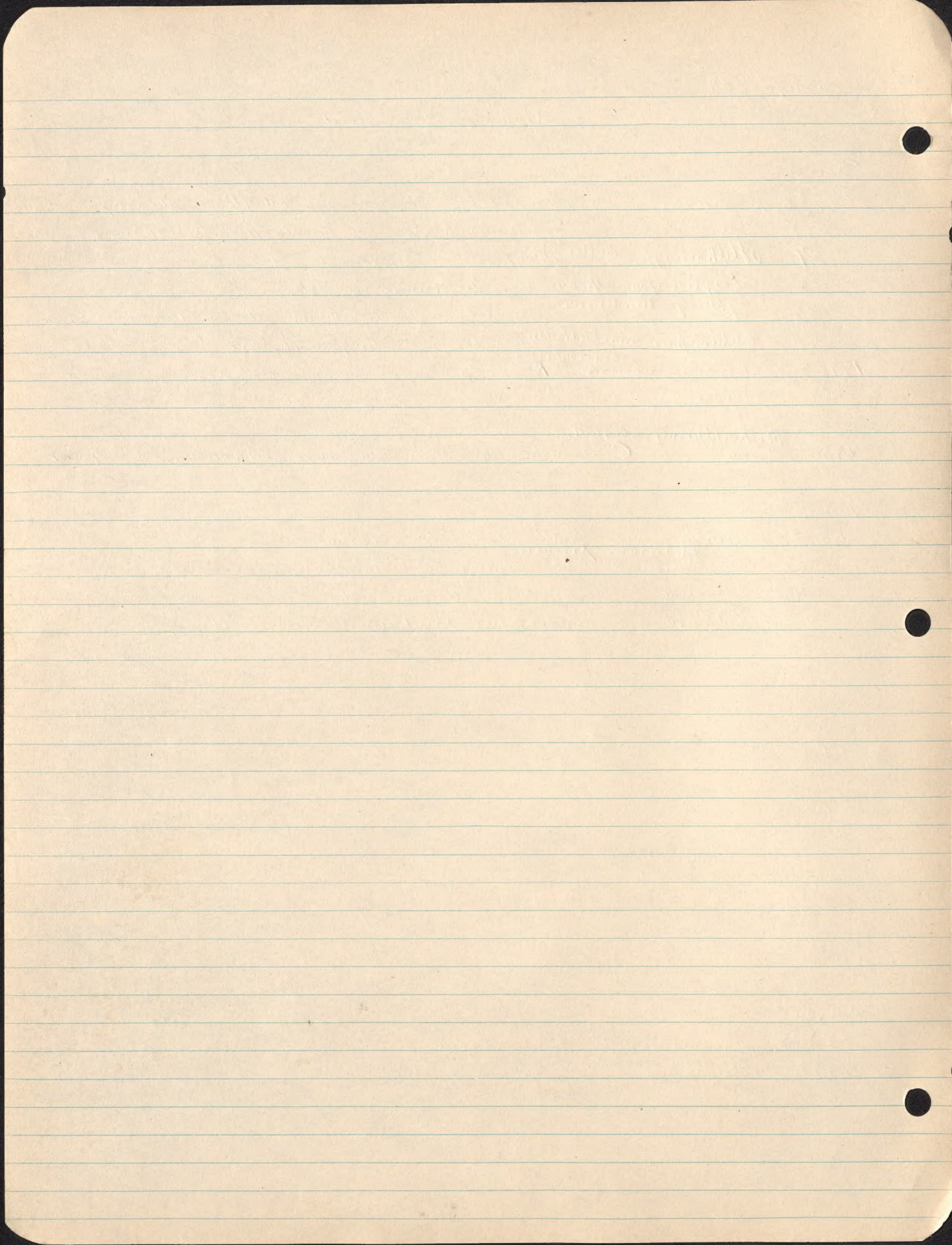
19824. *Pavetta*. 8m x 15cm. Fl. cream, style red. Fl: ? Fl. honey-scented.
 25. *Quintinia*? Rain forested banks. 6m fl. wh. Fl: unisexual (all rivers S. of Bananga).
 27. *Plataneocarya* ^{involucrate} 15m x 35cm. Fl. yellowish. Fl: ?
 28. *Tournefortia* sp. 3m. Fl. greenish-wh. Fl: ?
 34. *Plataneocarya* ^{bipinnata} 20m x 25cm. Fl. yellowish. Fl: ? Close to river bank.
 36. *Euphorbia* ^{anacardifolia} 20m x 30cm. Fl. greenish. Fl: ?
 19868. *Pleopeltium* ^{erectum} *Salicoides*? F. 25m x 30-40m. Fl. ? Fl: dark purple.
 69. *Ebenus*? 12m x 20cm. Fl. green. Fl: ?
 19831. *Psychotria* ^{almyra} C. at water edge \pm 10m. Stem much swollen at base. Fl. Fl: red.

Vines

19826. *Phoradendron* ^{peruvicum} 4m. Fl. ? Fl: immature.
 29. *Phoradendron* ^{peruvicum} 5m. Another wh. Leaves 100-120cm long.
 30. *Vincetoxicum* 15-20m. Fl. green. Fl: ?
 35. *Euphorbia* ^{peruvicum} Scandent shrub 4m. Fl. wh. Fl: ?

Herbs

19889. *Polanthes* ^{herbacea} Bright orange-yellow.
 19890. *Medicago* ^{terrestris} Scattered on high banks.



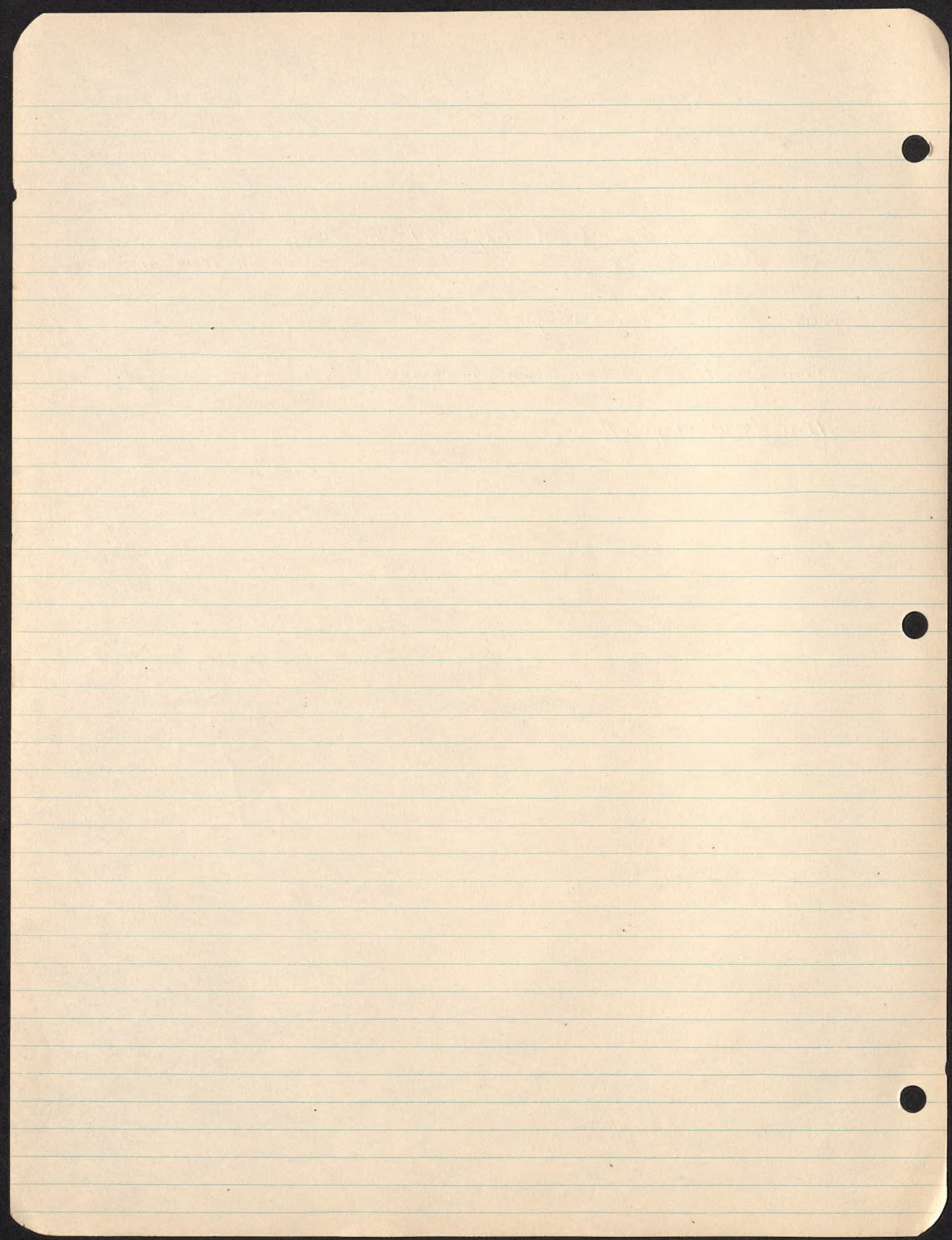
Leo Creek, Upper Mustang River

alt. 4200m. at camp.

Rain forest - top of range

Rain forest - creek banks & ravines.

Rain forest regrowth.



Leo Bk.

Rain forest - creek banks & ravines

Trees, canopy

19892. *Art.* *Alseodaphne* *melicifolia* F. 20-25 m x 25-30 m. Fl. ? Pl. yellow (Tozan Range fl.)
Towers 3-40 ft.

Trees, subtidary

Trees, subtidary

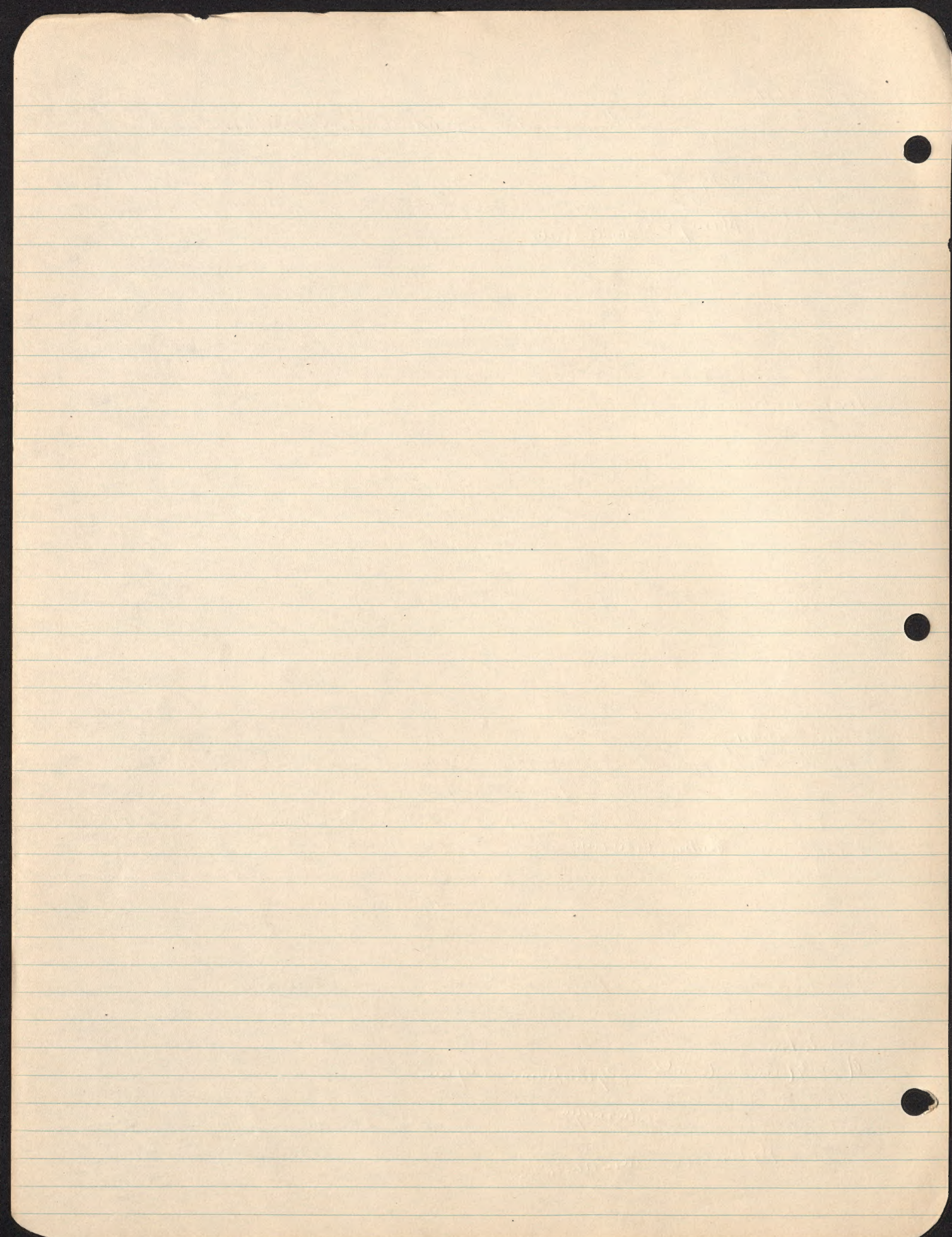
19861. *Mythophyllum*? trunk fls. 12 m x 12 cm. Fl. buds. Pl. red, fleshy.
63. ? 12 m. Fl. buds only - Pl. orange.
99. Tozan? 15 m x 20 m. Great abundance near fl. Pl. ?
19895. *Ficus viburnacea* 15 m. Fl. ? Pl. black, fleshy.
43. *Phoradendron* *schlegelii*. O. on rocks on creek banks. 10-12 m. Large panicles red fls.
Stem usually unbranched.

19866. *Pandanus* F. \pm 8 m. \pm 10 m. See field label.
69. " F. in ravine P. 8. 7-9 m. Bytidia heads in persistent bracts.

Palms

Woody undergrowth

19860. *Psychotria* *oleacea* F. on creek fls. 6-7 m. Pl. spreading orange-yellow. Regularly pinnate.
62. *Linospadix* *intermedia* F. 1.5-3 m. Fl. yellow to orange red. Several stems of different ages.
19866. *Hydnora* *winckleriana* O. in ravines. Slender rot. stem & irregularly pinnate leaves. 12-16 m.



Los Bk.

Rain forest - creek banks & ravines

Woody undergrowth

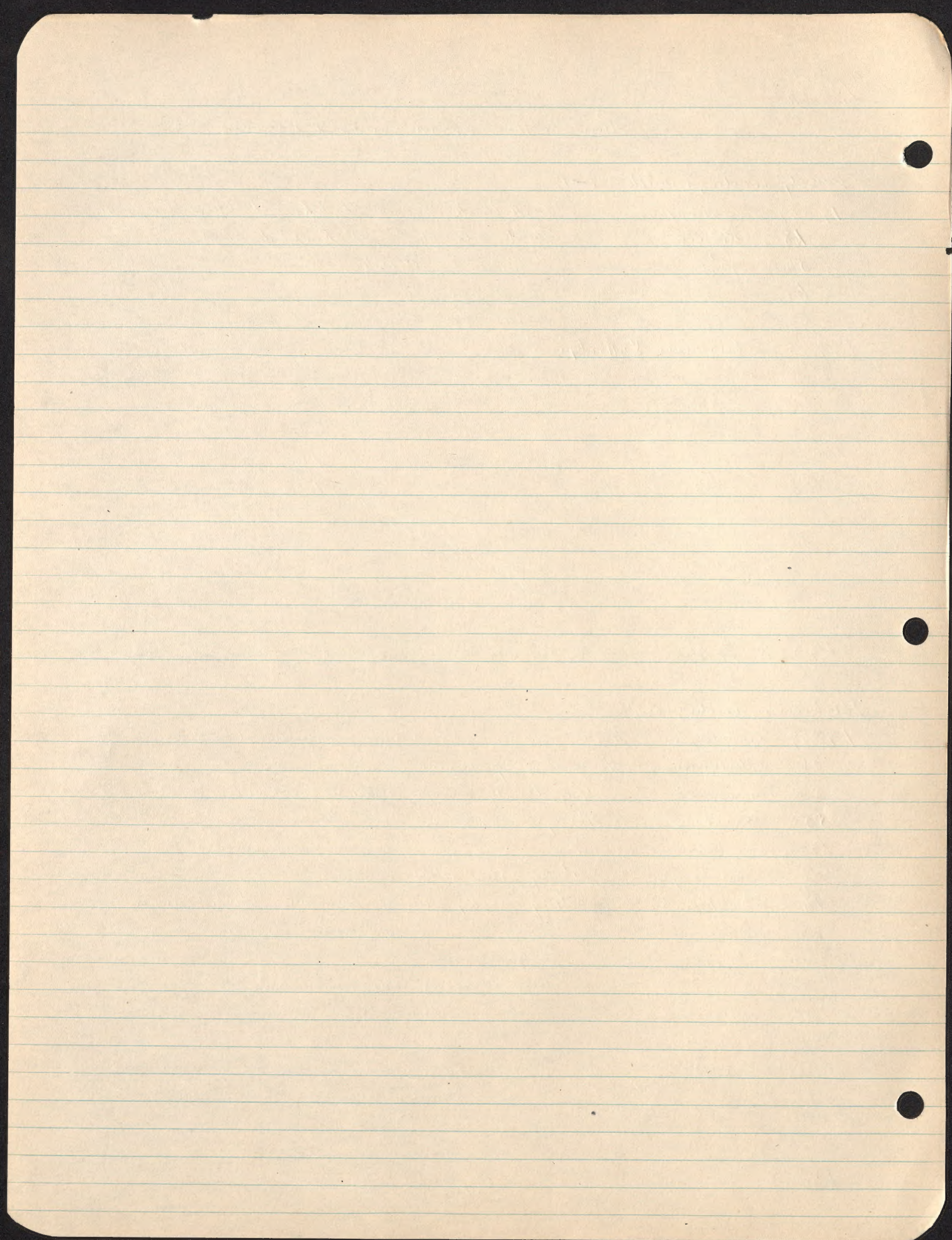
19847. *Lasianthus* Creek bank .70 m. Fl. wh. Ft. blue. Large stipules.
48. *Kibara* Shrub 3 m. Fl. ? Ft. purplish-black.
54. *Rub.* Shrub. 60 cm. Fl. wh.
67. ? Shrub 1 m. Fl. ?
83. *Rub.* Treelet 3 m. Fl. wh. Ft. green
19845. *Caribaea* *Salicoides* Rocky creekbank Tree 3 m. Fl. wh. Ft. ?
46. *Lonicera* ? " " Tree 6 m. Fl. ? Ft. black, fleshy.
47. *Solanum* " " Shrub 2.5 m. Fl. purple. Ft. ?
48. *Rapanea* Lvs. Tree 5 m. Fl. wh. Ft. unripe.
51. *Pittosporum* Rocky edge of creek. 1 m. Fl. ? Ft.
52. *Asa.* " " " 1 m. Fl. purple.

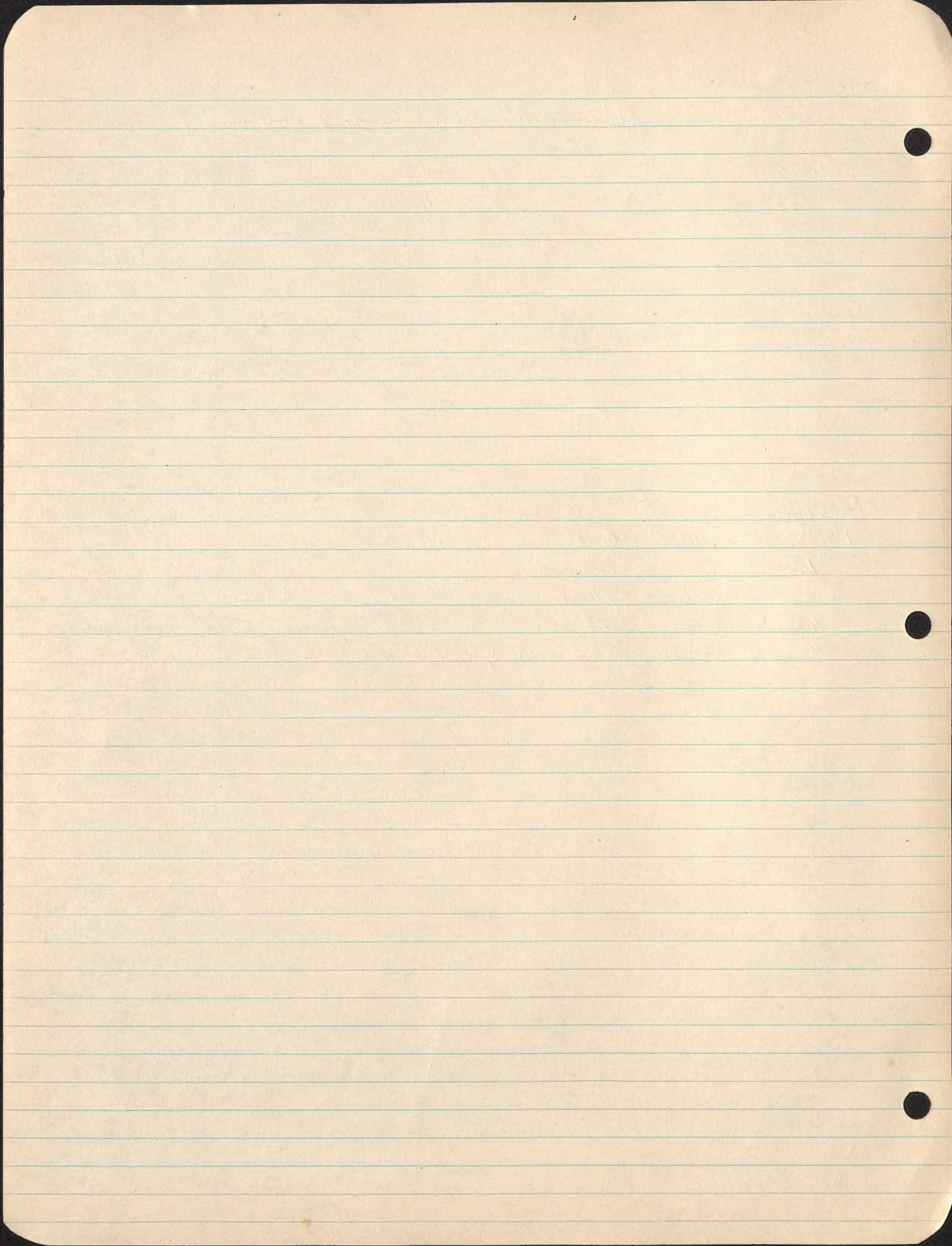
19859. *Cyathus* A. in ravine. 6-8 m. Leaves 5-8 m.; smooth & shiny above

Herbaceous undergrowth

19848. *Lindsaea* Rock crevices on creekbank. Subpendul. 2-3 m.
50. *Polka* A. in a rocky ravine
53. *Ophiorhiza* Ery. locally amongst rocks on creekbank. 20-60 cm Fl. wh.
55. *Lindsaea* Rocky creekbanks 25-50 cm.
65. *Trichomanes* Ery. " " Dark shining green.
70. *Lindsaea* Rocky steep slopes
74. *Neptunia* Ery. rocky side of a ravine. Staked leaves 100-120 cm.
78. *Adiantum* Rocky side of a ravine. 30 cm.
19880. *Ely.* Tufts 40 cm.
31. *Lindsaea* Ery. locally in very dense shade. 50 cm.
33. *Gleichenia* Small groups on shady forestbanks. 60-70 cm.
34. *Alpinia* J. Fl. yellow.
44. *Lil.* O. rocky creekbanks. 30-40 cm. Fl. wh. anthers black.
62. *Ely.* A. in a moist gully. 60-70 cm usually sterile.

19929. *Bougainvillea* P. in dryish R.F. & old 2nd growth. To 180 cm.





Lo BK.

Rain forest - creek banks & ravines

Epiphytes, cont.

19909. *Hymenoph.*

Matted on a wet rock. 1-1.5 m.

36. *Orch.*

C. locally on moist creek banks. Very robust climbing sp. with stems twining around supporting tree to a height of 5-8 m. & leafy nearly to base. Leaves fleshy. Fls. cream, spotted purple-red.

48. *Orch.*

Creek bank tree. 5-10 m. Minute white fls.

60. *Psittacium*

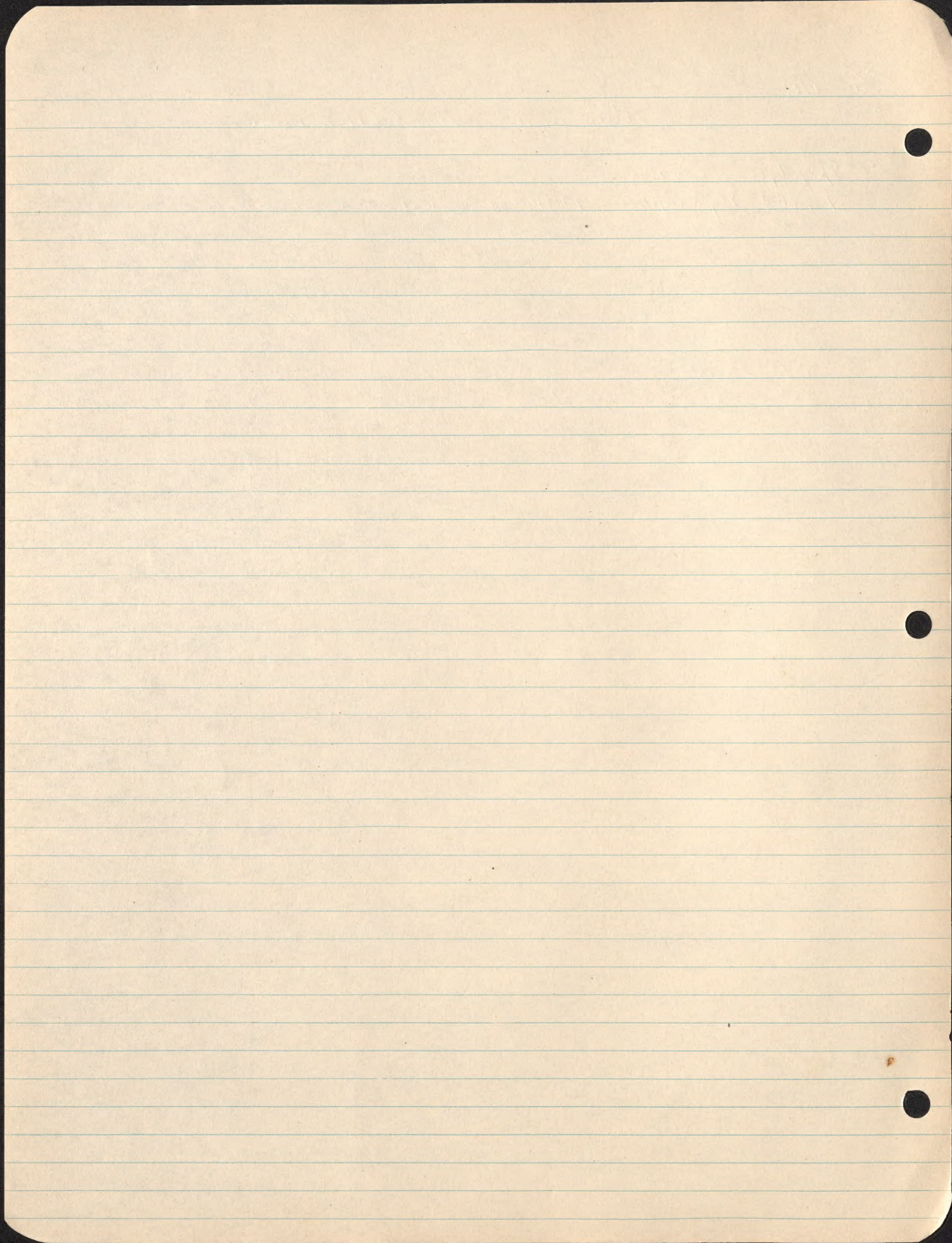
Fibrous trunk of a fan palm. Diameter 40-50 cm.

Epiphyte? 63. *Schizaea?*

Shrubby log on creek bank. 7-12 cm. (or mm?) "Like a blade of grass 3-cleft at the tip."

64. Fern.

Low epiphyte.



Les. Ch.

Rain-forest, creek banks & ravines

Mosses - terrestrial

19928.

Blay mat on of an old stone faye.

Mosses - on rocks

19888.

Moss rocks in creek bed.

89.

Favoring seepage-wet rocks in R. F.

93.

" sunny moist rocks.

95.

Phlegma

Fushioned on a rock.

96.

Outcrops rocks on sides of a bluff

97.

Rocks on creek bank.

98.

Fushioned on rocks (gray-green).

19904

Moist rocks of creek banks.

05.

Outcrops wet rocks .. "

06.

07.

Large wet rocks.

Mosses - epiphytic

19858.

Base of a tree

72.

Trunk of a palm

73.

Good trunk of a tree.

87

Open banks of stream.

90

Rotten logs.

91.

17. Lower trunks of trees

92

Lower " " "

94.

Rotten wood

19908.

17 on lower trunks of trees

09.

Massed a " " & rocks

38.

Rotten logs.

53.

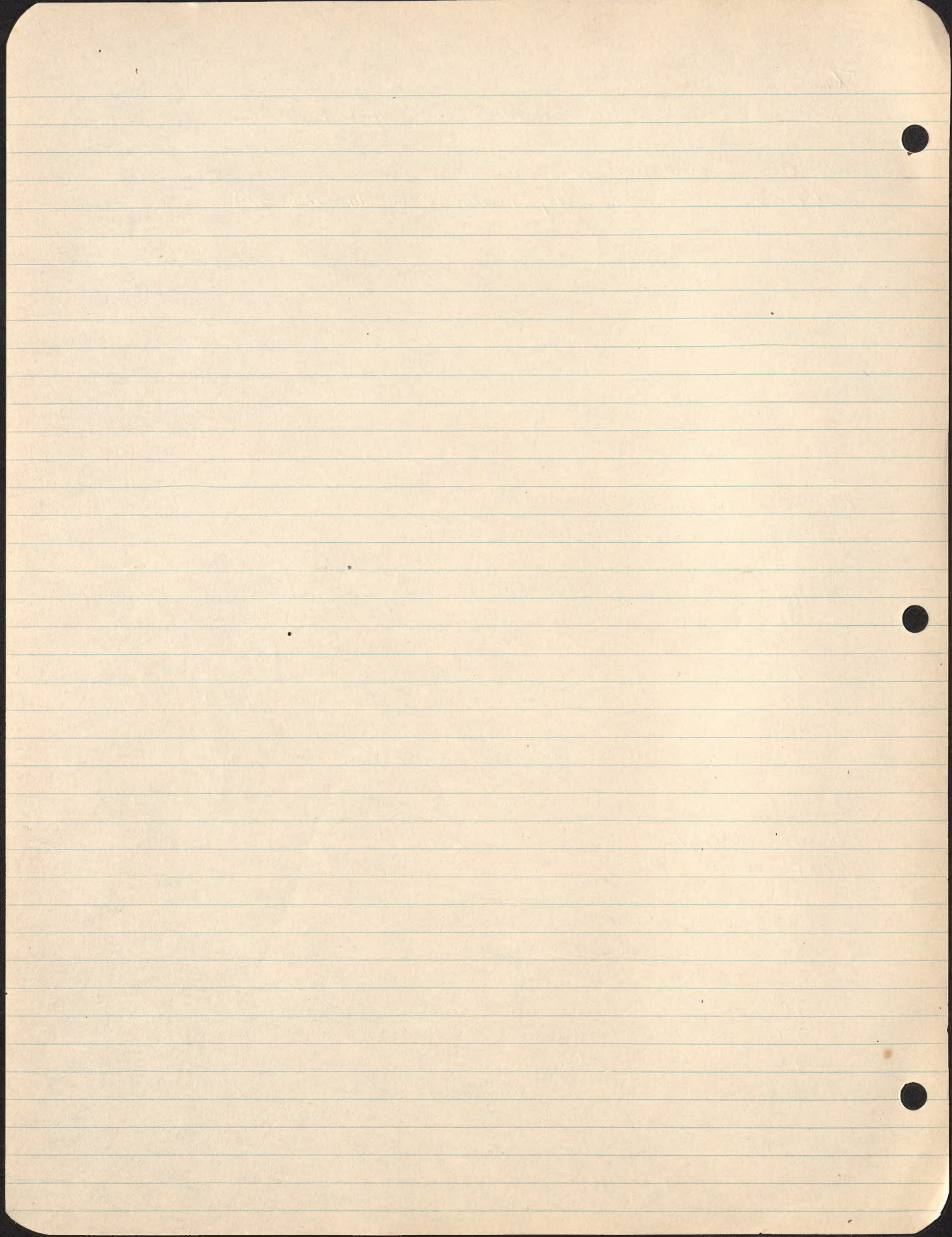
Living bank in u.f.

55.

Rotting wood

56.

Trunk of a palm



Lo. Ok.

Rain forest - Top of range

500 m. alt.

Trees, canopy

19915. *Garcinia*

25 m x 35 cm. Fl. yr-yellow. Fr. ?

22. *Podocarpus*

C. 20-25 m x 30-50 cm. Fr. figs on bank. Long leaves.

19967. *Ardisia Cunninghamii* C. on banks of streams & west of ridge
to 20 m x 1 m. Bampon Pocket, 1500 ft.

Trees, subcanopy *Psychotria Cunninghamii*

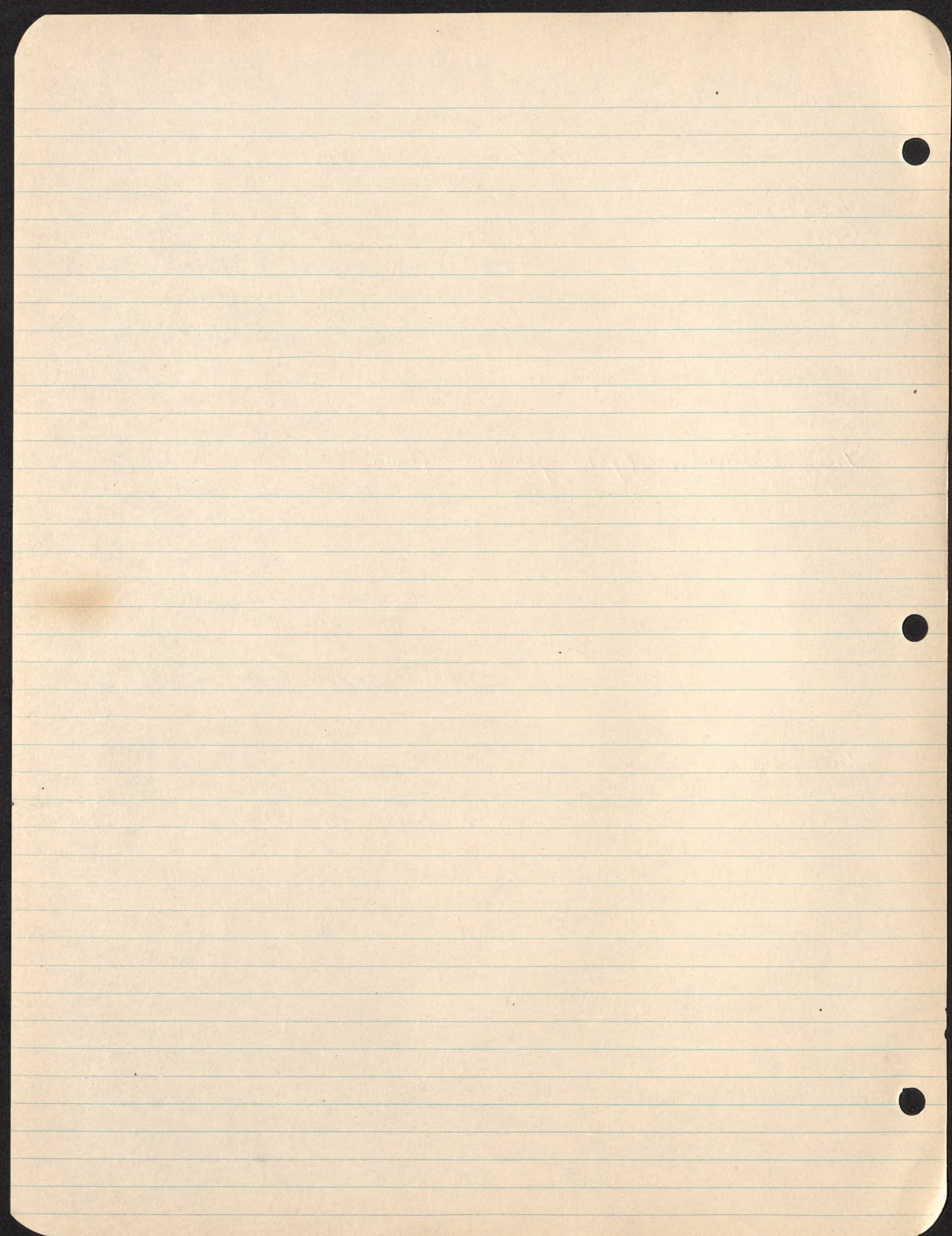
19925. *Simarouba*

20 m x 25 cm Fl. buds. Fr. ? Leaves & bark strongly
shiny.

Trees, subcanopy

19910. ?

F in dryish RF of ridge (500 m). Petals cream, sepals reddish.
Fr. ~~unripe~~ ^{unripe}



Lo O. Th.

Rain forest - Top of range.

Woody undergrowth

19920. *Heliconia glaberrima* Tree 4-6 m. Fl. fr. purple. Fl. ? Leaves strongly marked

23. *Alseodaphne*

Shrub 2-2.5 m. Fl. reddish, unbranched. (together 26.)

Herbaceous undergrowth

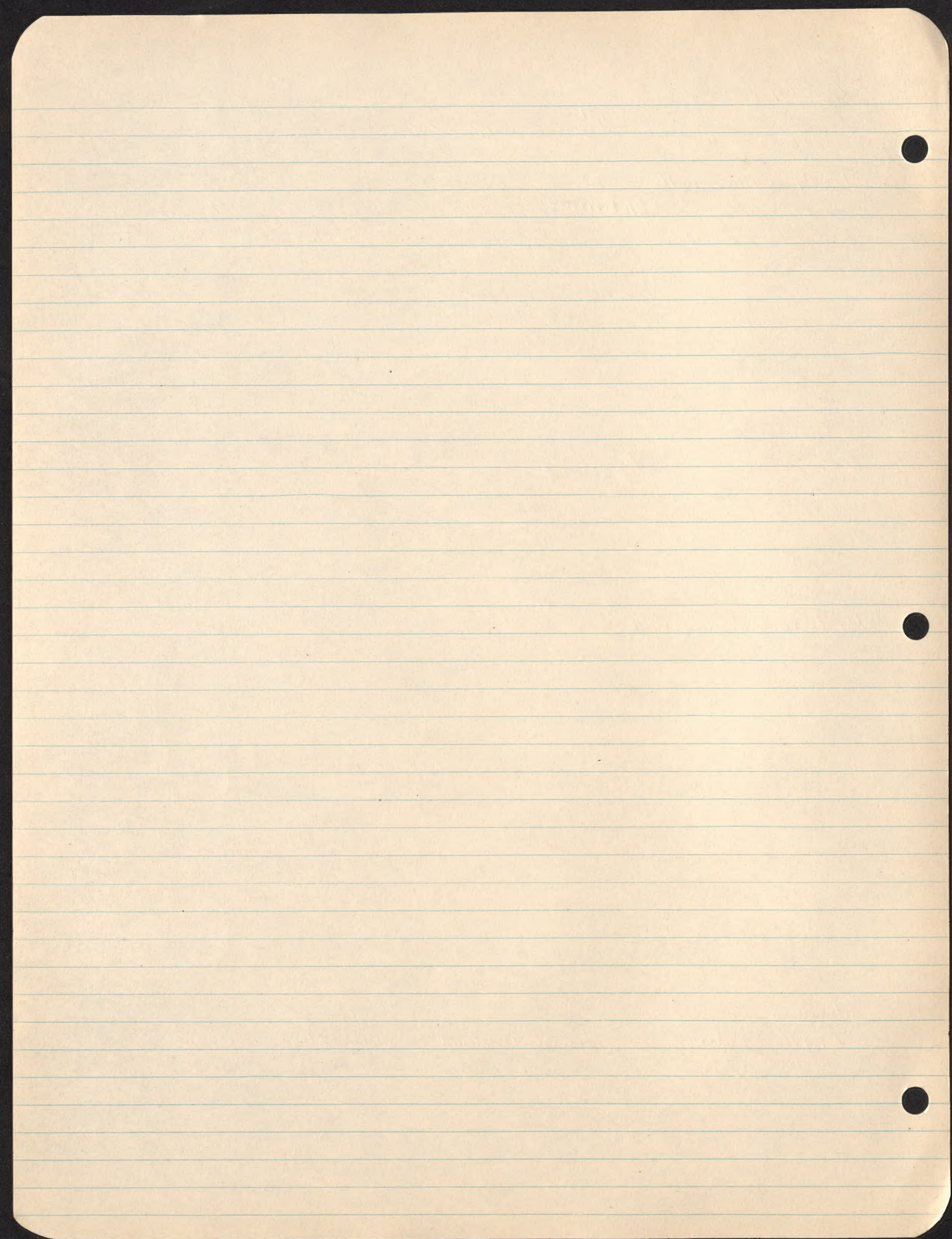
Climbers

19916. *Ipoea*

Tendrils shrub 5-20 m Fl. ? Fl. Black.

19. *Mimosa*

2 m. Fl. cream. Fl. ? Black wing stems.



Los R.

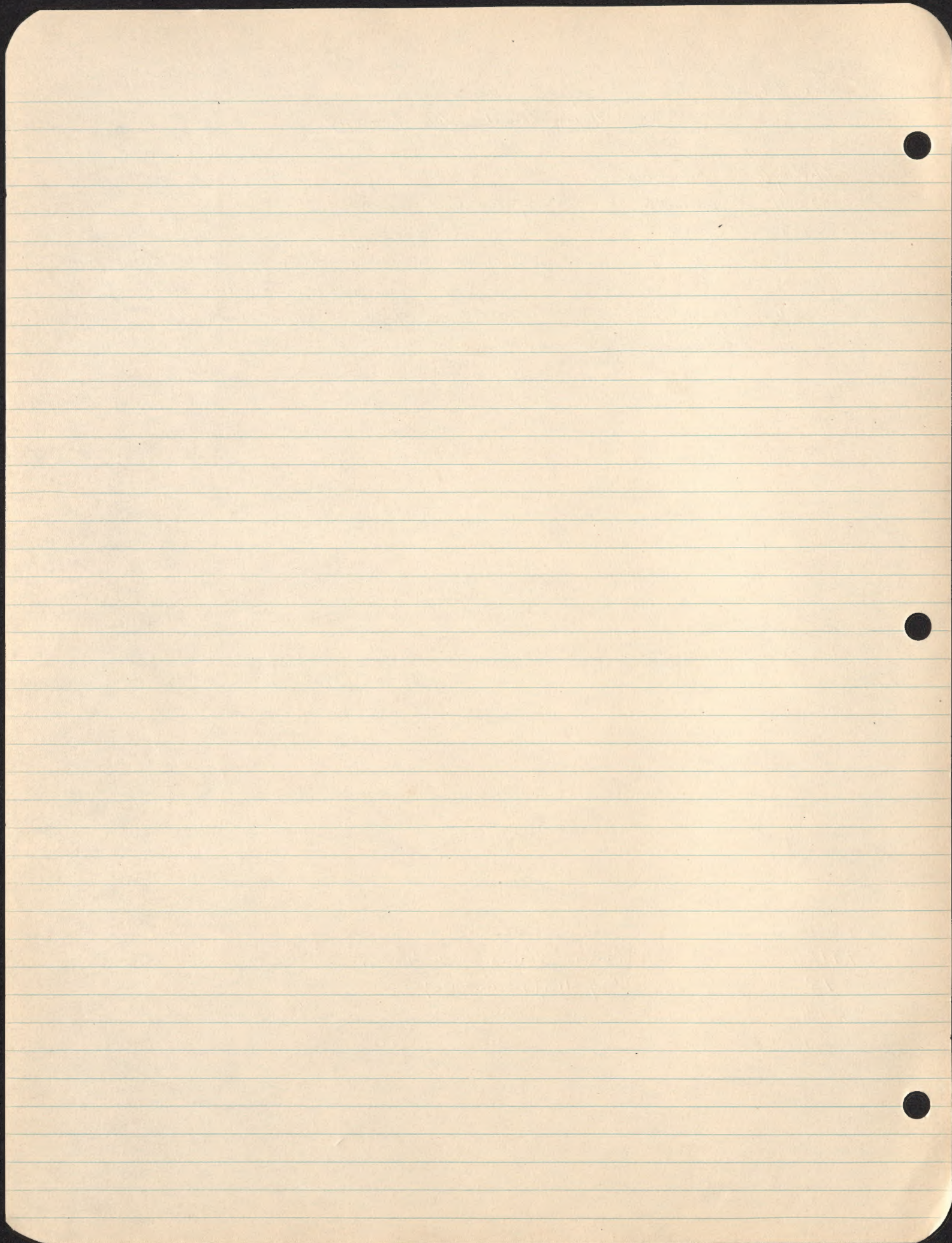
Rain forest - top of range

Epiphytes & parasites

19911. *Pyramosphaera*. Mossy trunk of a tree.
17. *Pogonochloa*. Leaves pendul.
18. " On fibrous covering of a fan palm stem. Pendul to 2 m.
21. " Trunk of a fan palm. Pendul to 1.5 m.
24. *Coronilla*. Stem twining 1.5 m. Showy pink fls.
26. *Platycentrum albicorne*. F.

Mosses

- ~~19911. Mossy trunks of trees.~~
19912. Lower trunks of a tree
19. Dry twigs in v.p.
14. " " "
27. A. Lower trunks of trees



Lo. Gk.

Rain forest upgrowth

mes.

Shrubs

19840. Mah. 2 m. Fls. cream. "Peculiar sp. fruit just at Toger Gap."

Shrubs

19939. Fern. Acler. climber of the very thin ground flora of ~~the~~ old
and growth. (Diplazium?). 50-50 cm.

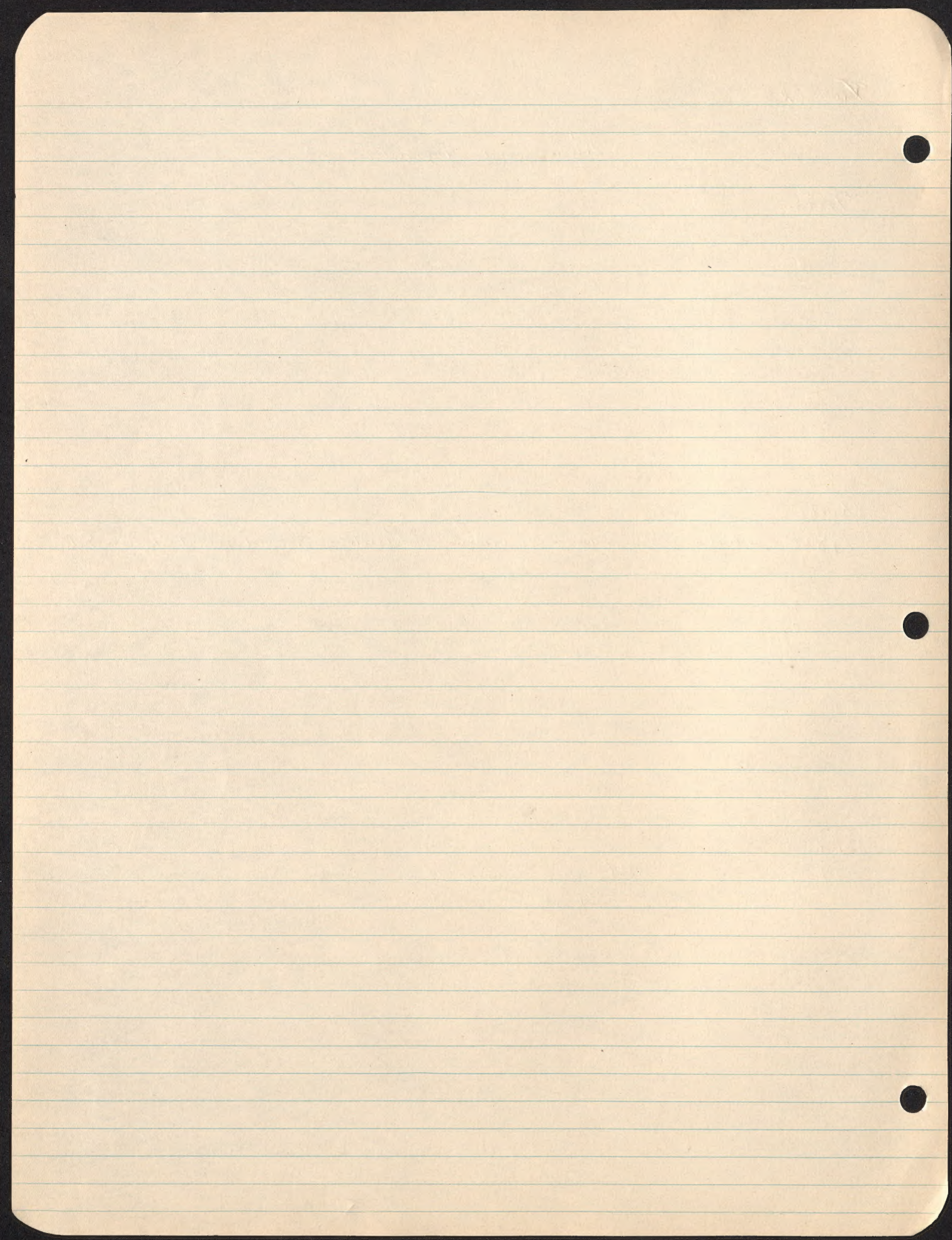
40. Dianella. " " " " 80 cm. Fls. pale blue.

Part eaten by horses.

42. Gf. " " " " 70-80 cm.

19928. Bowenia

P. in old and growth & in dryish P.F.



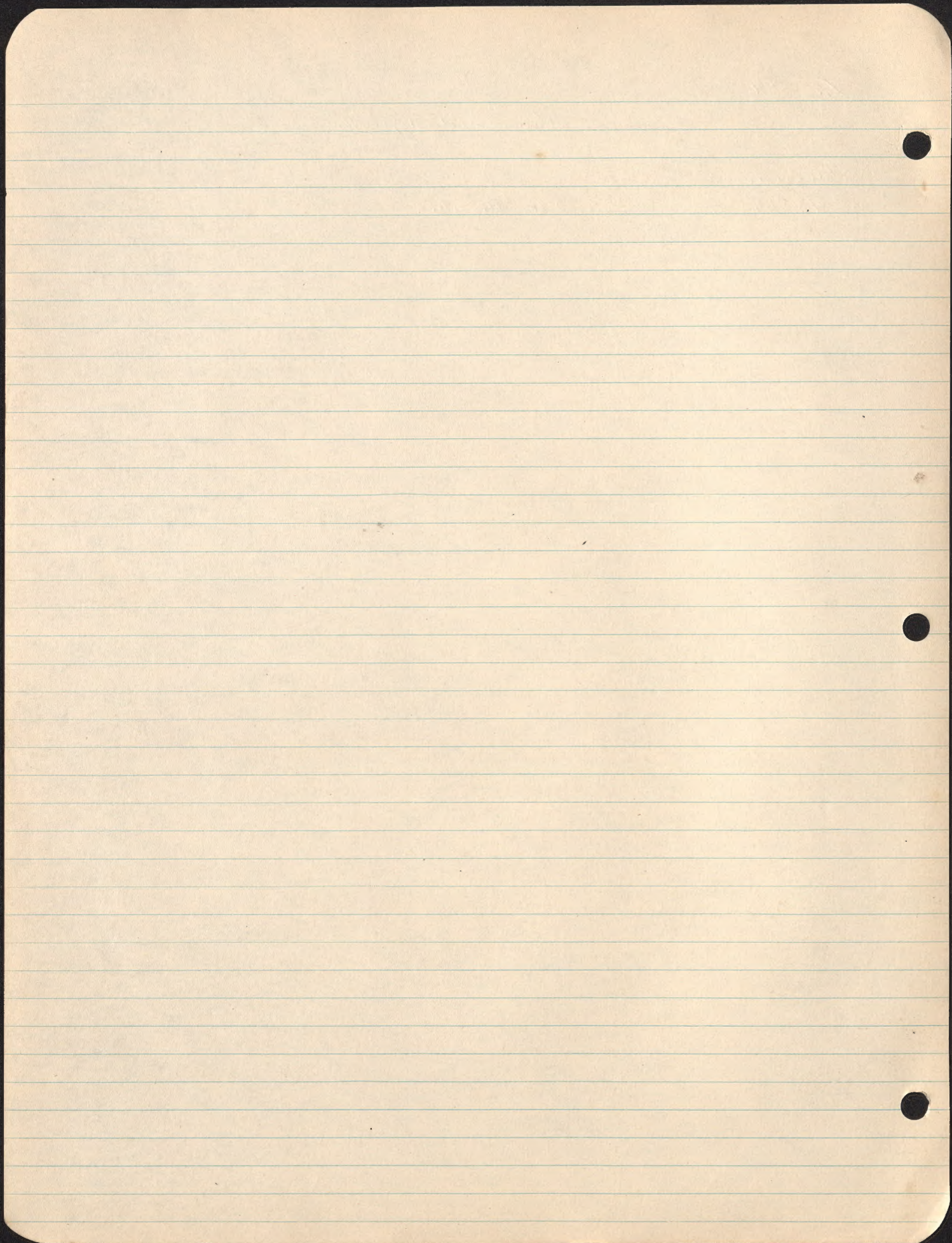
Low bk.

Rain forest regrowth

Climbers

19844. ?

5 m. fl. white

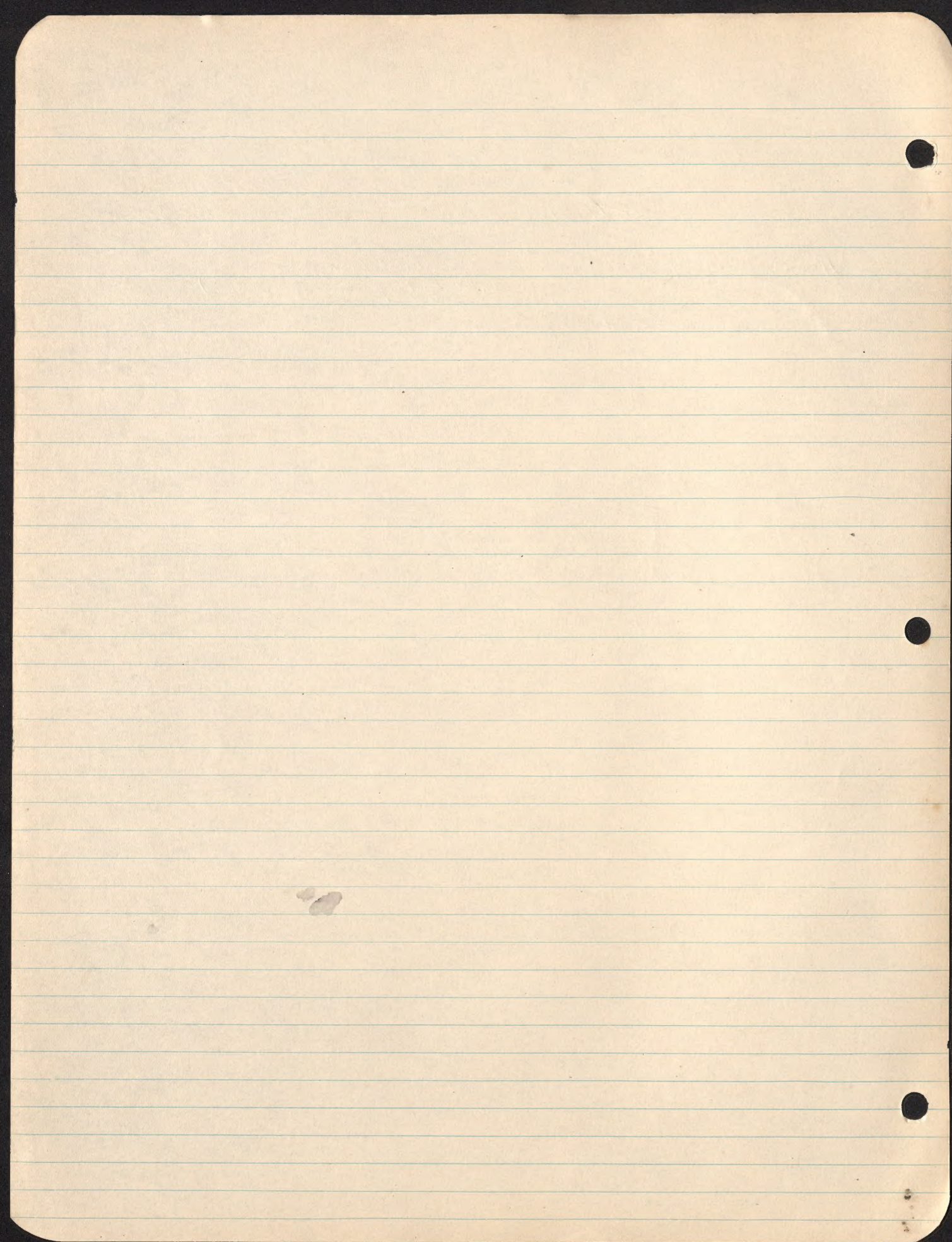


Shiptoni Flat

275-350 m.

Rain forest of creek banks & flooded islands.
(also gallery woods of rubber).

Savanna forest



Shipicaní Flat

Savanna forest

Trees

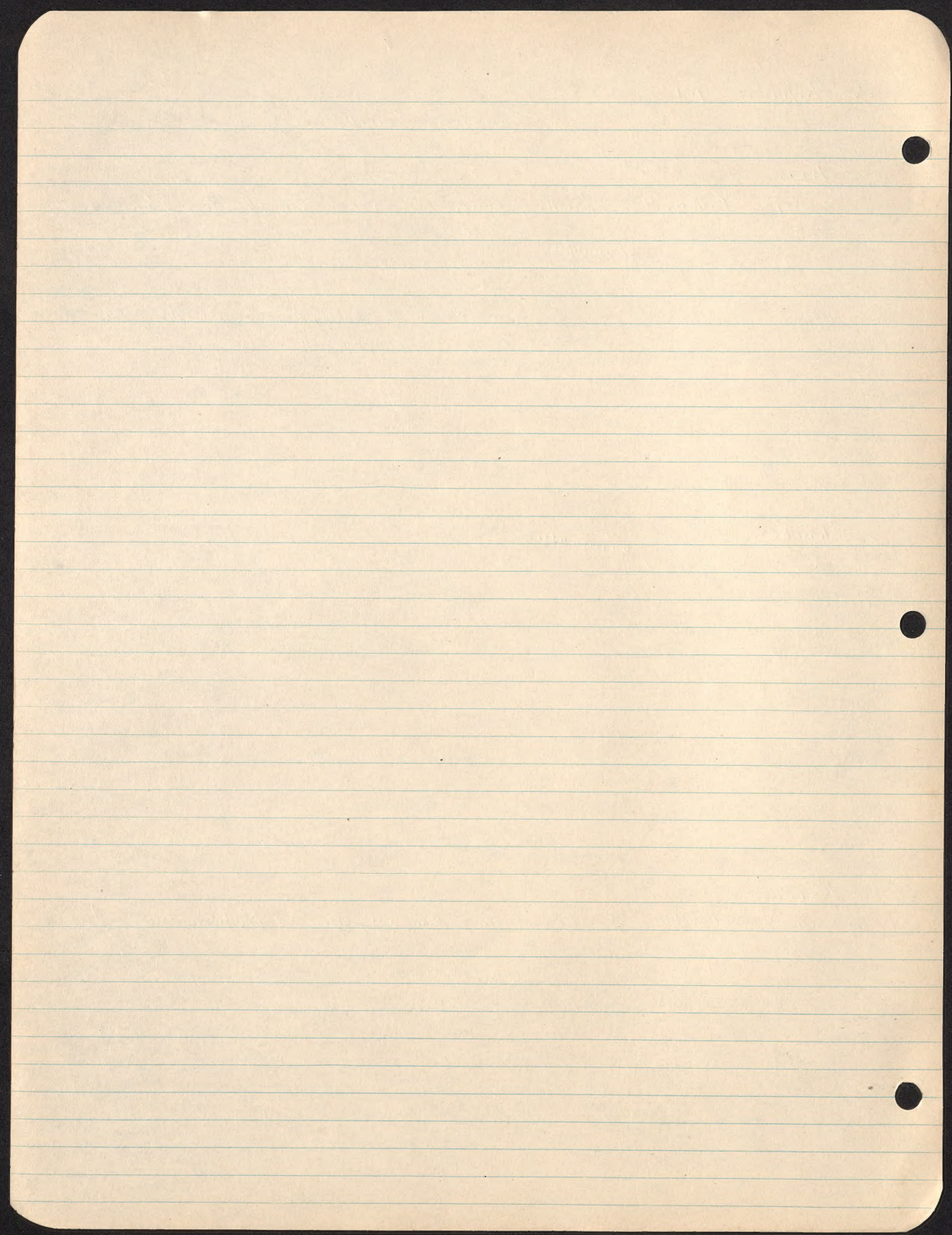
20078. *Funaria*? Banks of creek. 15m x 20m. Fl. wh. (From Pascoe south).
20187. *Banksia* C. to 12m x 25cm. Fls. gr. yellow. Seldom flowering.
95. *Lyncocarpus* ^{glomerulifera} C. embracing tree in tall st. 15-20m x 40cm. Fl. ? Fls. brown bark.
20257. *Barringtonia* Forest oak (300m alt.) Locally A. in *Acrocypha* st. 15-20m x 40cm. Thick, corky, deeply channelled br. bark.

Shrubs

20167. *Callistemon* ^{virginialis} Rocky bed of stream. Tree or shrub 2-6m. Fls. red.

Herbs & grasses

20008. *Camp.* C. 60cm. Fls. yellow, rayless (*Helichrysum*?).
20159. *Myrsine* Covering a granite shelf on bank of stream. ± 1m. Fls. white on 25.11.2005.
60. *Scheuchzeria* F on rocky slopes 30-45cm.
65. *Aristida* C. on dry slopes. ± 1m.
66. *Panicum* Dry banks of a stream. ± 80cm.



Thipton flat

Savanna forest

Climbers

Epiphytes & parasites

20009. *Poly pod.* Large clumps low on trees. Pinnate lf.; shield leaves.
23. *Toranihus* Fl. on *Casuarina* trees. Fl. green, pale red.
20158. *Platycentrum allicorne*. C. (also in rain-forest).
20231. *Dischidia*. Mounted on bark of a tree. Fl. cream. Many very small leaves.
31^A. *Cyclophorus* A. in large masses. Pub. pendul 40-55 cm.
58. *Sindrobium* 40 m. Fl. wh. lip red yellow. Very delicate fls. in open racemes.

Mosses

20022.

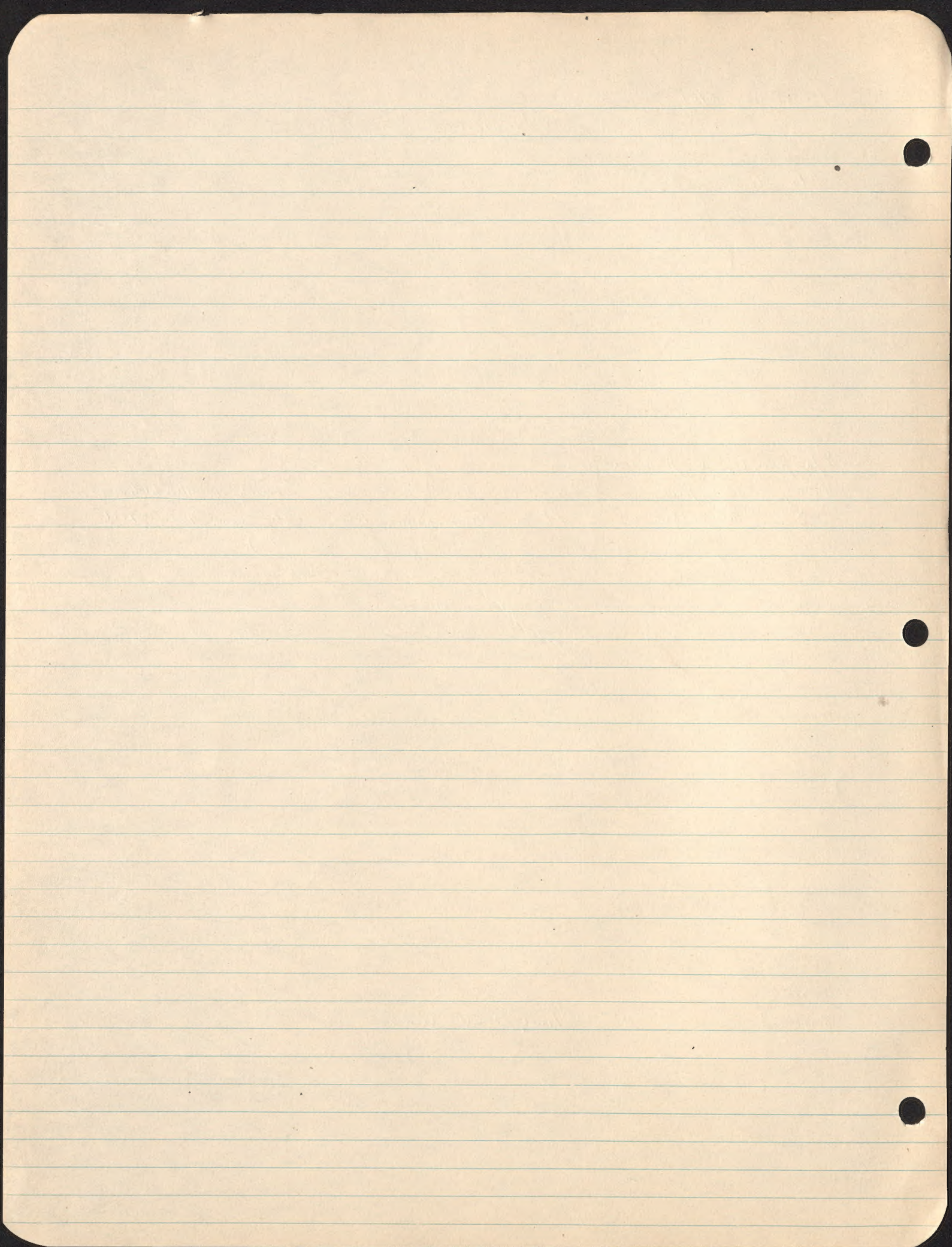
Shady road banks

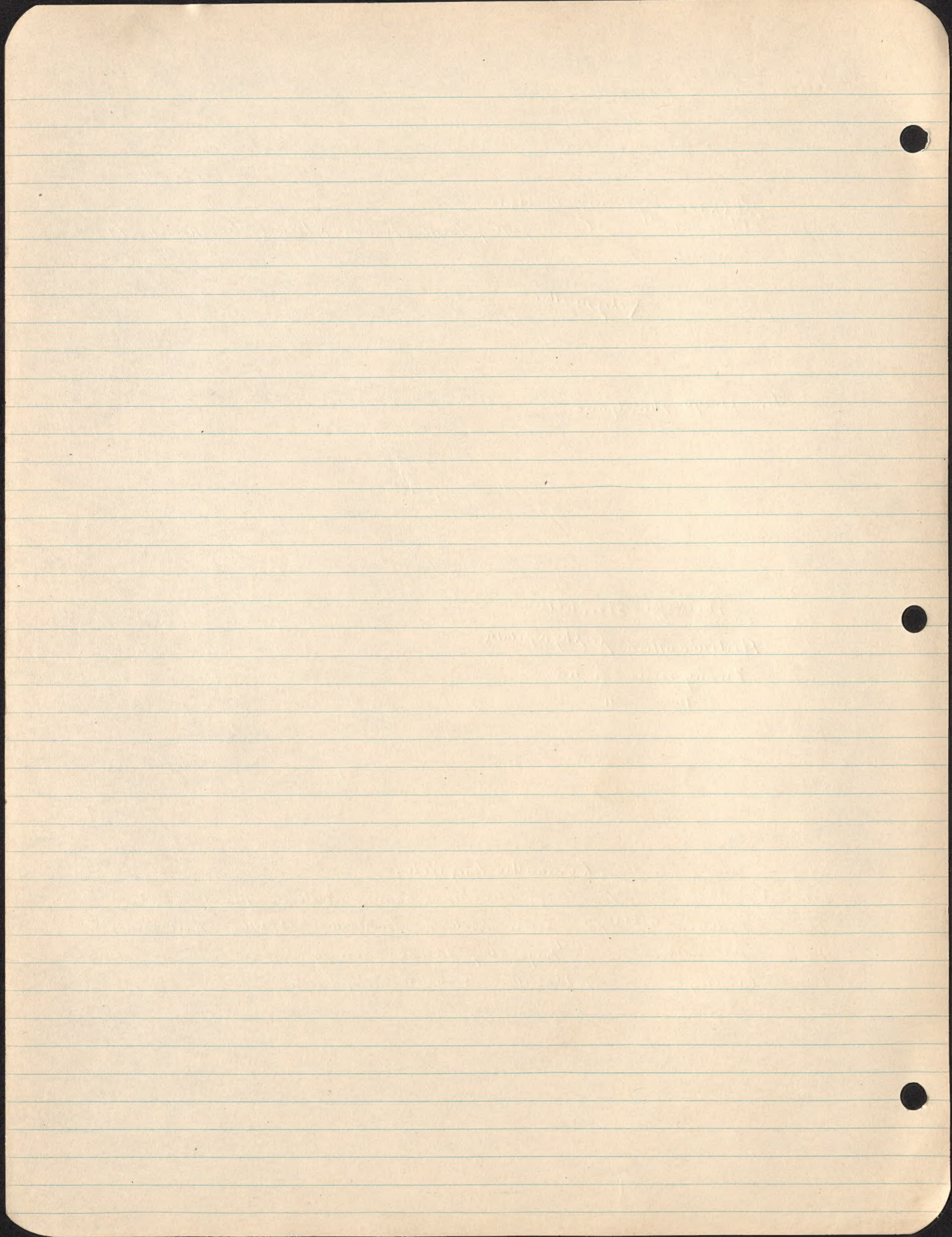
20168

Very large grey-green cushions

20169.

Grey-green cushions on charcoal.





Shipman Fl.

Rain forest of creek banks & flooded islands

Epiphytes & perennials

20016. *Molodtziya* On woody u.s. fl. wh.

20157. *Sandrobium fruticosa*. F. clumps 80 cm. Fls. br-wh. Lvs. green & with pink stem.

58. *Polygonum alicorne*. C. high & low. (also SF).

20230. *Psittacium* Subpendul.

59. *Asplenium nidus* On rocks & low on trees in gully forest. To 1 m.

60. *Pogonod.* " " " " 100-120 m.

Moss

20020. On drift logs.

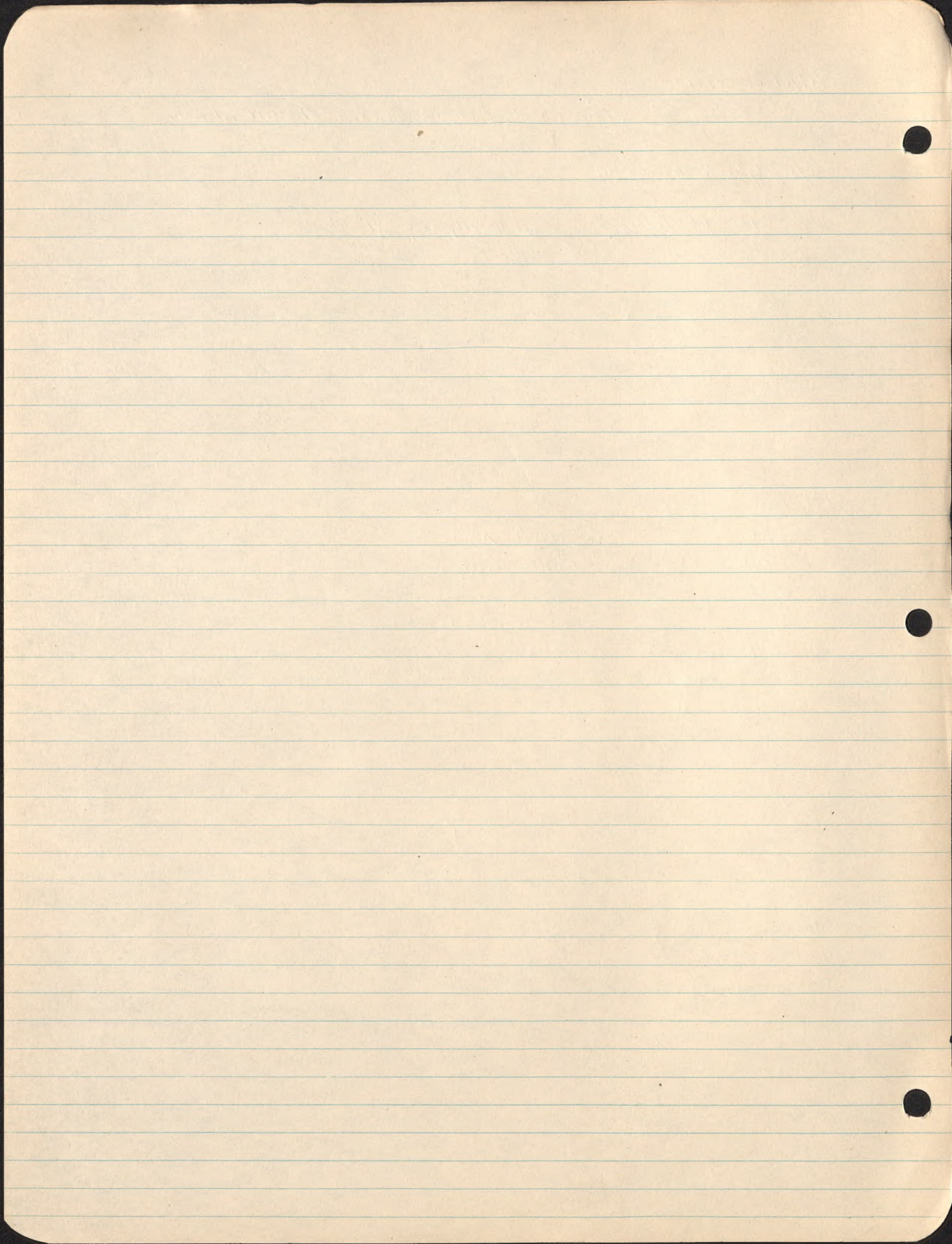
21. Rotten wood.

20168. Forming very large grey-green cushions on moist shady banks of stream.

70. Moist granitic rock on bank of creek.

Climber

20228. *Gynerium* P. 2-3 m. in partly R.F. u.s.



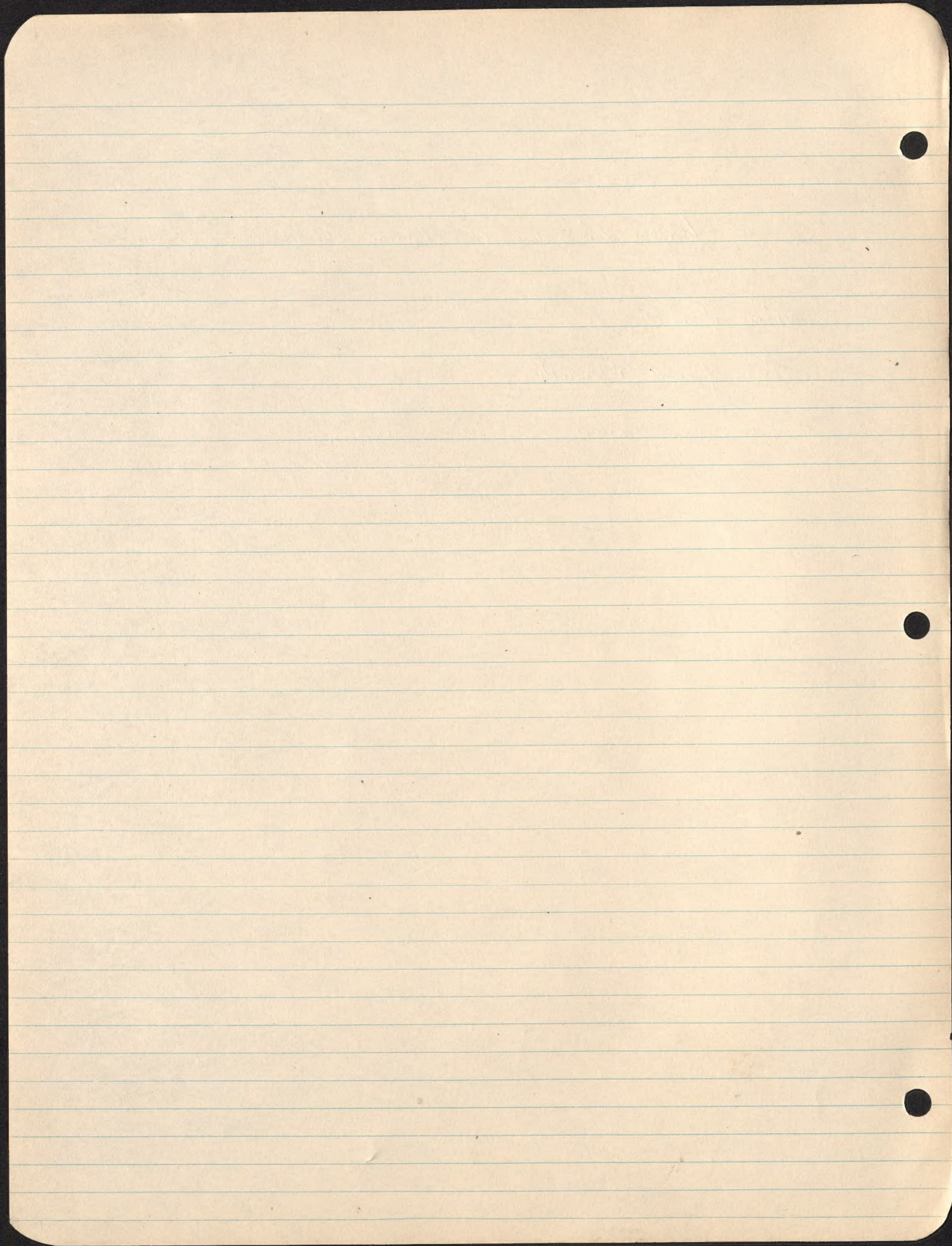
Upper Parrot Bk., Annan River.

350 m -

Rain forest.

Rain forest regrowth

Savanna forest 350 m. alt.



Upper Panoi Tk.

Pain forest

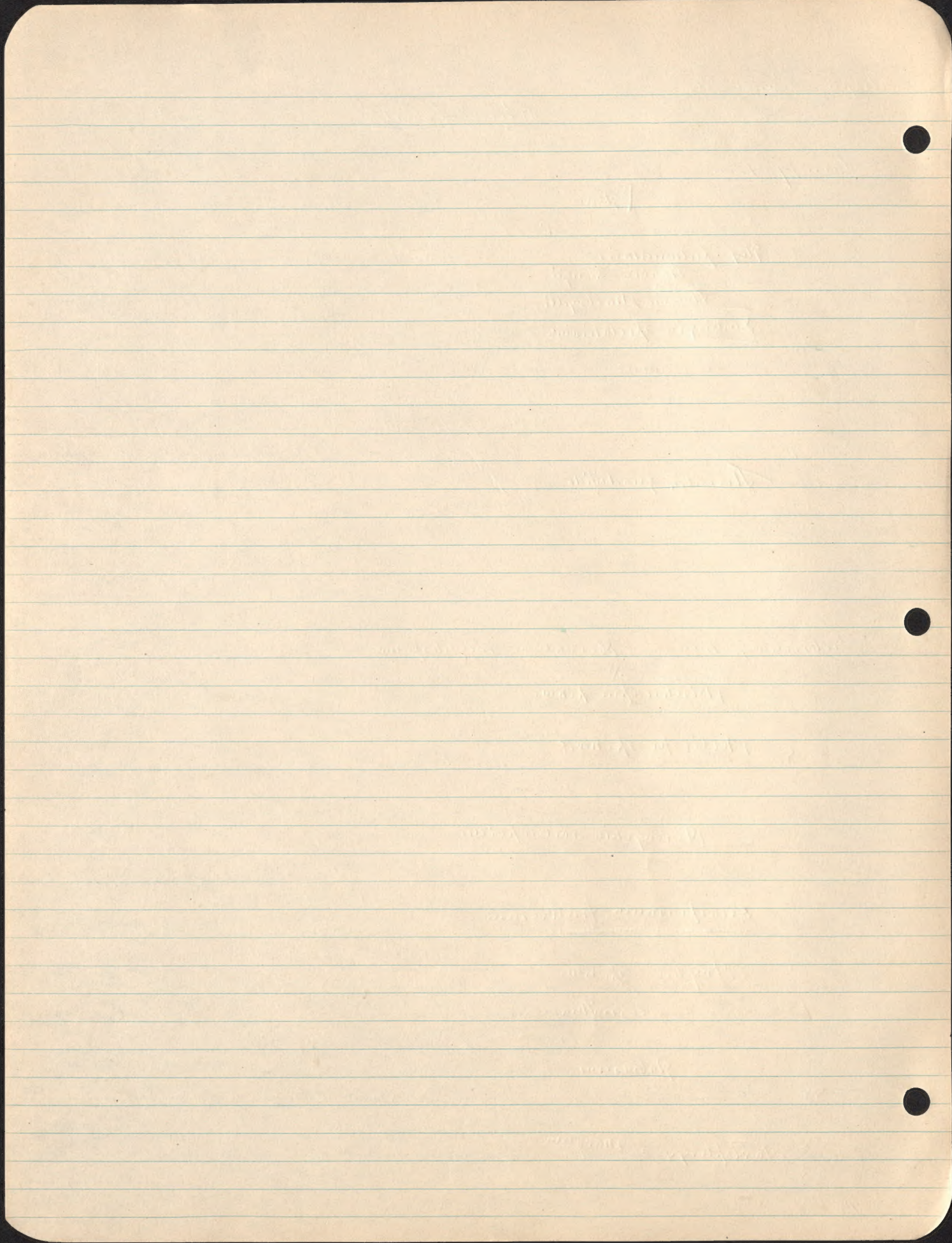
Canopy trees

20210. *Indiandra glauca* Tree 25-m x 35-m Fls. orange. Fr. ?
12. *Elaeocarpus Bannoffii* A. to 30-m x 50-60-m. Fl. ?
37. *Phy. pedunculata* C. locally (400m). To 30-m x 60-m. Fls. green. Fr. ?
38. *Alseodaphne tangii* ± 25-m x 140-m. Fls. cream. Fr.
69. *Alseodaphne Macbridei* 400m. To 30-m x 50-m. Fls. cream.
90. *Sapindus spectabilis* A. 400m. ± 25-m x 40-50-m. Fls. cream.
98. *Acacia antaeocarpa*? "Tree hickory." Fr. in edges of P.F. ? on crest of ridge within the forest. To 30-m x 20-m. Fl. ? Hard, hollowly fissured tr. bark.
20307. *Aral.* O. 500m. To 25-m x 50-m. Fls. blackish-purple. Fr. black. (= Iron Range) ^{Shi}
19. *Stemodia quadrifida* S. 450m. To 25-30-m x up to 30-m. Fls. green. Succulents. Most trees now leafless.

22. *Flindersia*

Subdividing trees *Alseodaphne megacarpa*

20027. *Alseodaphne* A. Bank of a stream. 15-m x 20-m. Fls. pr-yellow. Fr. unripe.
20174. *Alseodaphne* A. Subcanopy layer. 15-m x 80-m. Fl. ? Fr. red, and purple, red black.
80. *Alseodaphne* sp. nov.? F. banks of stream. 8-12-m x 10-20-m. Fls. wh. Fr. dry deliquescent 2-to 10-bd.
20203. *Podocarpus* Black Pine. F. subcanopy to 20-m x 0.35-m. Fr. green tr. bark.
14. *Pod. crumpeana* *melicoides* F. subcanopy 15-16-m. Fls. yellow. 400m.
15. *Pod.* 16-m x 30-m. Fls. ? Fr. bright orange red; fleshy.
36. ? Subcanopy 15-m. (450m). Fl. ? Fr. blue.
46. *Pod. frutescens* (pigeon-like) C. 500m. 10-15-m x 30-m. Fls. ? Fr. soft, black. Leaves small
50. 450m. 20-m x 25-m. Fls. green. Fr. immature of *Pod.*
51. *Pod.* F. subcanopy 450m. 15-m x 25-m. Fls. yellow, Fr. 2-to 10-bd.
67. *Pygmaea coriifolia* (or *exaltata*) 400m. 15 x 20-m. Fls. cream & pink, caulescent, mostly on lower part of stem.
84. *Heliconia glabrescens* Subcanopy 450m. 15-m x 20-m. Fls. yellow. Fr. ?
88. *Myoproc.*? *Orchidaceae* dryish P.F. 400m. 20-m x 25-m. Fls. wh. Fr. immature. Thick corky pale tr. bark.
97. *Faricarpa* of *marly* P.F. edges 400m. 12-m x 20-m. Fls. cream. Fr. ?
99. ? 500m. 12 x 20-m. Fls. ? Fr. green, laterally compressed
20308. *Phamm.*? 500m. 20-m x 30-m. Fls. yellow. Fr. ?



Upper Parrot Bk.

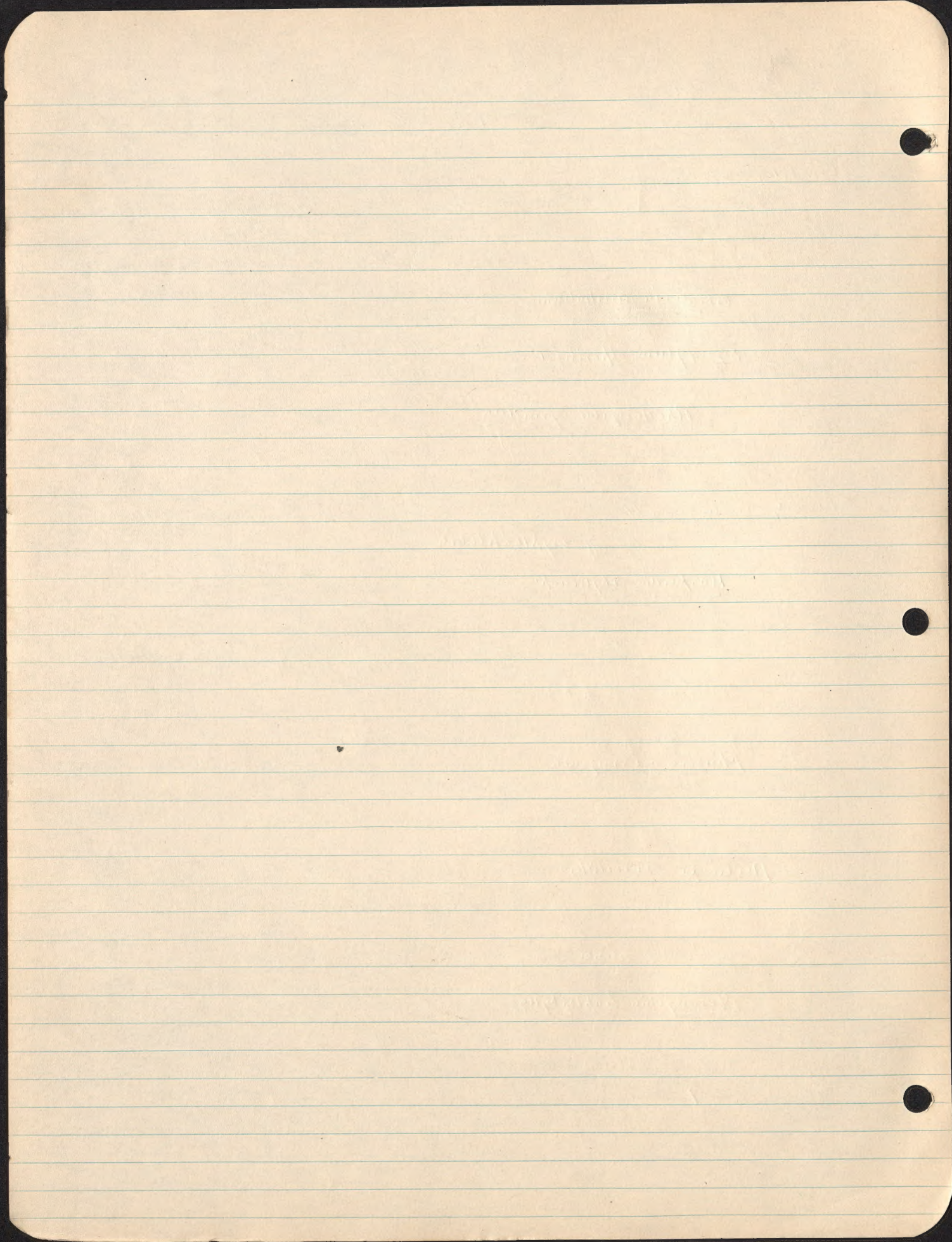
Rain forest

Large trees

20204. ? ~~7m. 16m. Fl. ? Fl. subglobose, red, 3-4 cm. dia.~~
 07. *Diospyros* One sample 7m. Fl. ? Fl. unisexual
 42. ? 16m x 15cm Fl. buds only. Fl. orange, hard, depressed petals 4-7mm.
 44. ? 10m. (500m). Fl. buds only. Fl. orange, subglobose \pm 3 cm. dia.
 06. *Antiaria australiana* Banks of a stream 400m. 12m x 20m. Fuscous fl. with long
~~strobilike yellow-gr. petals in rolled in bud.~~
 91. *Psychotria oppositifolia* 450m. 10m x 15cm. Fl. yellow. Fl. ?
 92. *Myrsine* F. in thin dry R.F. 400m. 8-10m. Fl. ? Fl. immature
 20303. *Podocarpus neriifolia* P. 500m. 4-6m. Fl. buds only.
 04. *Tabebuia* 450m. 14m x 15cm. Fl. ? Fl. purplish-red. 3.5 cm. dia.

Woody undergrowth

20031. *Psychotria* ^{off. *erythrophlebia*} F. tree 4-6m. Fl. pinkish-white. Fl. ?
 20172. *Psychotria rhytidocarpa* O. tree 3-6m. Fl. ? Fl. red, anthers orange, seeds black.
 77. *Platanus* F. tree 3-4m. Fl. gr-white. Fl. ?
 81. *Kibara* P. tree a shrub 3-5m. Fl. ? Fl. dark, receptacle orange.
 84. *Calamus* F. 2-3m. not scandent, stems several.
 20205. *Utricularia* S. tree 1.5m. Fl. gr. Fl. simple. (400m)
 06. *Pleurotheca* F. in more open parts (400m). 1-2m. Fl. purplish.
 18. *Antrodia ferruginea* One sample (400m). Tree 2m. Fl. gr. Fl. ? Fl. simple.
 24. ? ~~Fl. tree 3-5m 275~~
 39. *Myrsine* Terrestrial-woody ground. Tree a shrub 4m. Fl. wh. in heavy shade
 racemes. Fl. ?
 41. *Psychotria serrillifera* P. tree 3-5m. Fl. cream. Fl. dehiscens.
 45. *Psychotria* C. in well lighted situations 500m. Shrub 1-2m. Fl. wh. Leaves small
 47. 500m. Tree 3m. Fl. ? Fl. immature. Leaves shining, leafy grey below
 64. *Psychotria minor* 1m. Stems several. Fl. yellowish orange. 400m.
 88. *Solanum* O. under open canopy conditions 400m. Shrub 2-3m. Fl. purple.
 86. *Psychotria leptophylla* 450m. Tree 5m. Fl. yellow. Fl. 5-lobed.
 20310. *Myrsine* P. edges of a rocky opening 500m. Shrub 1.5-2.5m. ^{flowers}
 11. *Psychotria* P. under broken canopy 500m. Large wh. fl. strongly ^{lower than}
 17. *Utricularia* O. 450m. Tree 3-5m. Fl. buds. Fl. purplish. Leaves ^{th. of 1st = 8}
 radial at apex of the fine erect branches, 80-110cm ^{scandent}
 long.
20302. *Psychotria* O. in gully 500m. Large sh. to 12m. tall. Numerous arched
 & spreading fronds \pm 5m. long.



Upper Pano' Fl.

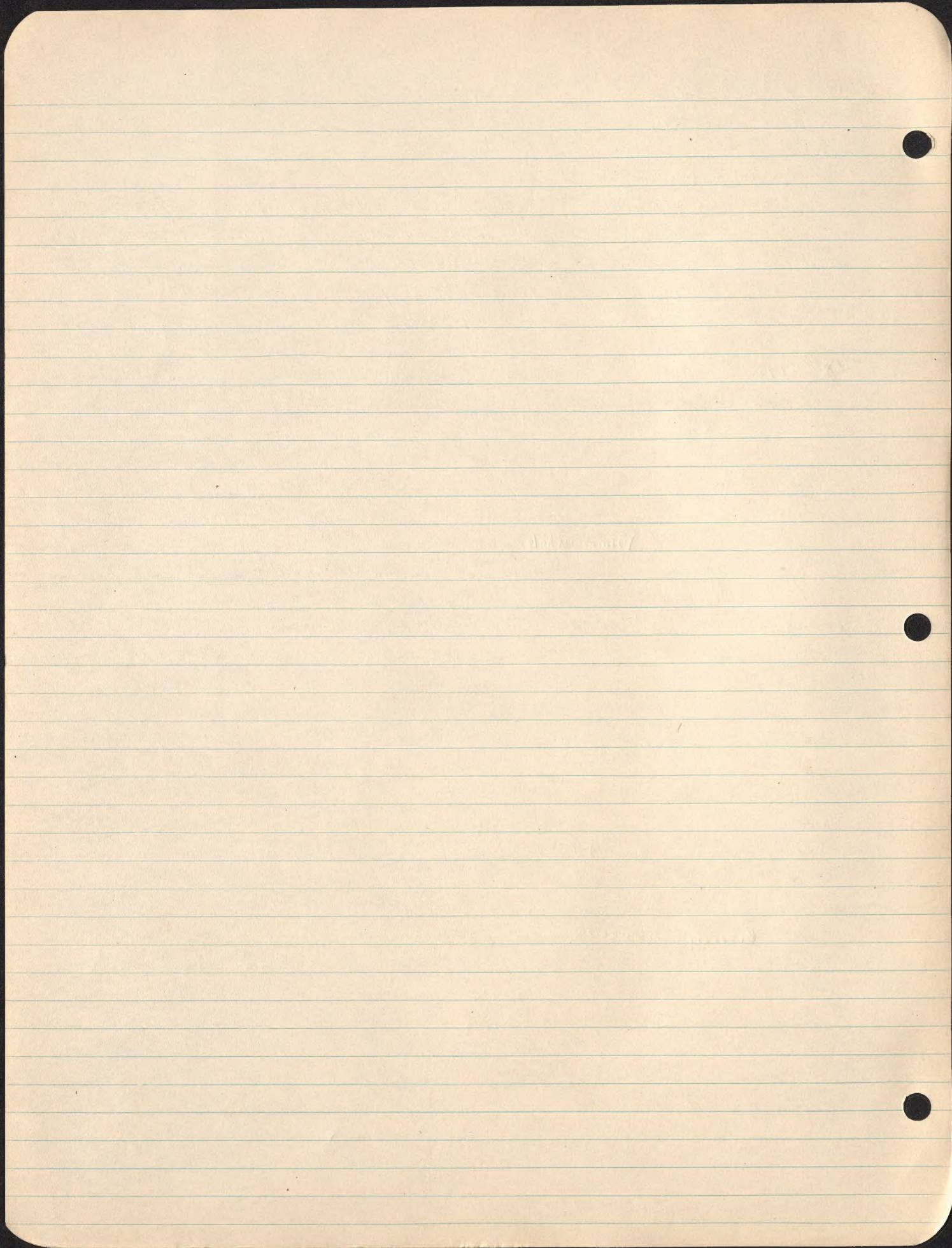
Rain forest

Herbaceous undergrowth

20024. *Dryopteris* Scattered on open banks of stream. 70-80 cm.
 25. Fern. One plant shady " " 110 cm. Leaves arched.
 26. *Dryopteris* Open banks " " "
 28. *Adiantum* Very steep clay " " 20 cm
 29. *Trichospora* " shady " " 15-20 cm.
 30. " Mossy rock " " Fls. spreading leaves.
 20175. Fern. C. in drain bank. 40-60 cm. Seldom fertile.
 78. *Trichomanes* Very moist rocky creekbanks.
 83. Orch. Grouped here & there on grassy banks. 20-30 cm. Small green & cream fls.
 20216. *Polystichum* ^{anceps?} O. groups in rocky places. 2-2.5 m. Long sword leaves. 40 cm.
 29. *Polystichum* C. in drain bank 400 m. Flowers 5 orange-yellow.
 33. *Polystichum* *Polystichum* on steep slope wet soil. 115 cm.
 68. *Alseodora* One plant in open steep floodbed 400 m. Large fl. 1.5 m
 69. *Pleochloa* A. rocky bed of cr. 400 m. 60-100 cm.
 20309. of *Thermopsis* Very in dry open places 500 m. Fls. white.
 15. Orch. S. on grassy bank ^{400 m} 10-15 cm. Fls. wh. with 2 green spots on lab.
 16. " " 15-40 cm. Fls. dr. with whitish tips

Climbers

20179. *Pothos* V.C. root-climber to 10 m. Sp. like fig. 6 yr., thick dark gr.
 82. *Piper* V.C. enveloping trunks of trees to 10-15 m. Fls. orange.
 20211. *Rham.*? Canopy liana 25 m. Fls. dr. Fl. umbels, 2-winged.
 17. *Bignoniaceae* *Wrightia* 3 m. Fls. pale green, very fragrant. 400 m.
 22. *Cordia*? Vine 15 m. Fls. ? Fl. purplish, fleshy. 400 m
 49. *Piper* Enveloping tree trunks (500 m). 15 m. Fl. shining brown.
 48. " Trailing on v.g. 500 m. 1.5 m. Fl. umbels.
 49. *Pisona* C. large canopy liana 400 m. To 30 m. Fls. rose-purple like *P. umbels*.



Upper Parcel Pl.

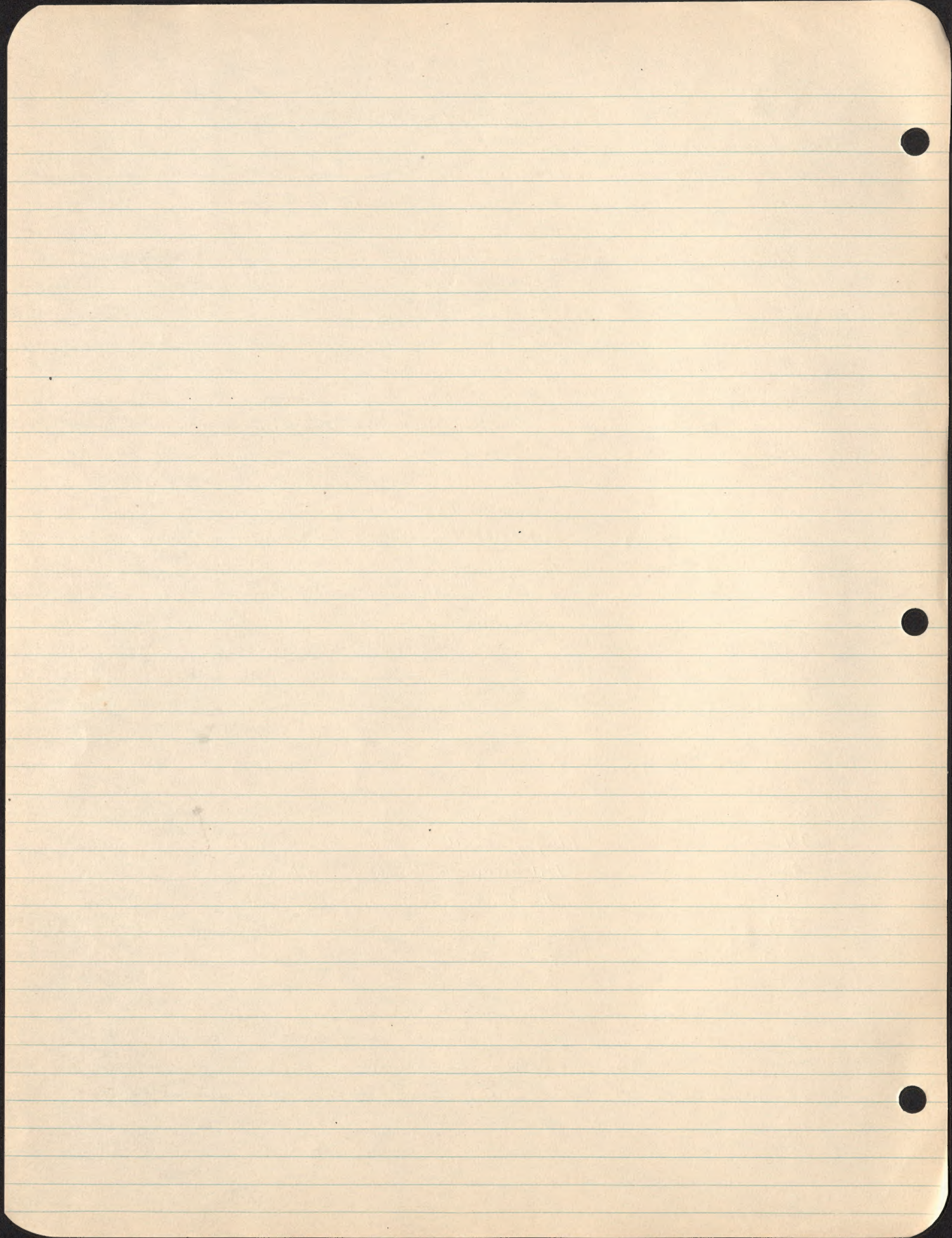
Rain forest

Epiphytes & parasites

20176. *Gymnidium*. Middle species. Large clumps ± 1 m. Pseudo bulbs laterally compressed. Fragrant fr.-green fl.
20213. *Taxanthus* 400 m. Fl. green
19. *Cyclophorus* Fl. in large masses. 25-50 cm. 400 m.
21. *Asplenium* Small clumps on granite boulders 400 m. 40 cm. Polypore
40. *Dicranella* High epiphyte (400 m). 40 cm Fl. cream.
52. *Asplenium nidus* F. 450 m. all.
65. *Asplenium* F on creek bank rocks. Independent clumps single leaves 80-50 cm
70. *Heterophyllum* Treelet on rocks. To 85 cm.
72. Fern. Growing on moist rocks in creek 400 m. 25 cm.
73. " 400 m. " " " " 70-60 cm.
74. *Grammitis*? Fl. " " mossy " " " " 70-75 cm.
75. *Hydrocotyle* Mound " " " " " " " "
82. *Phytolobium* Upper branches of a tall tree. ± 1 cm. Fl. pale lavender yellow
85. Fern. Climbing on lower trunks of trees 450 m
20350. *Viscum* On *Melastomaceae* high on a tall tree. 550 m. Fl. white
01. *Melastomaceae* Fl. high on tall trees 550 m. Large greyish masses. Fl.
06. *Asplenium* Mid species 500 m. Terminal independent leaves ± 1 m. long.

Mosses

20034. Blaggy road in R.F.
35. Wet rocks on bank of a stream.
36. Moist " " " " " "
37. " " " " " "
38. " " " " " "
20255. On an old log. 500 m.
56. On stems 400 m.
76. Fl. on rocks in bed of ~~water~~ creek 400 m.
77. Wet, decayed wood
78. Carpeting moist shady banks of stream 400 m.
79. Moist banks of stream 400 m.
80. Bank of a creek bank tree "
81. Upper branches of a tall tree "
20312. Growing on exposed rock outcrop, 500 m.
13. Lower trunks of trees in dryish forest "



Upper Parrot Bk.

Plain forest

Subsidiary trees, cont.

20314. *Davidsonia pruriens*. O. in dryish forest 450 m. To 18 m x 25 cm. Fl. pink.
Fl. immature. Barks irritant.

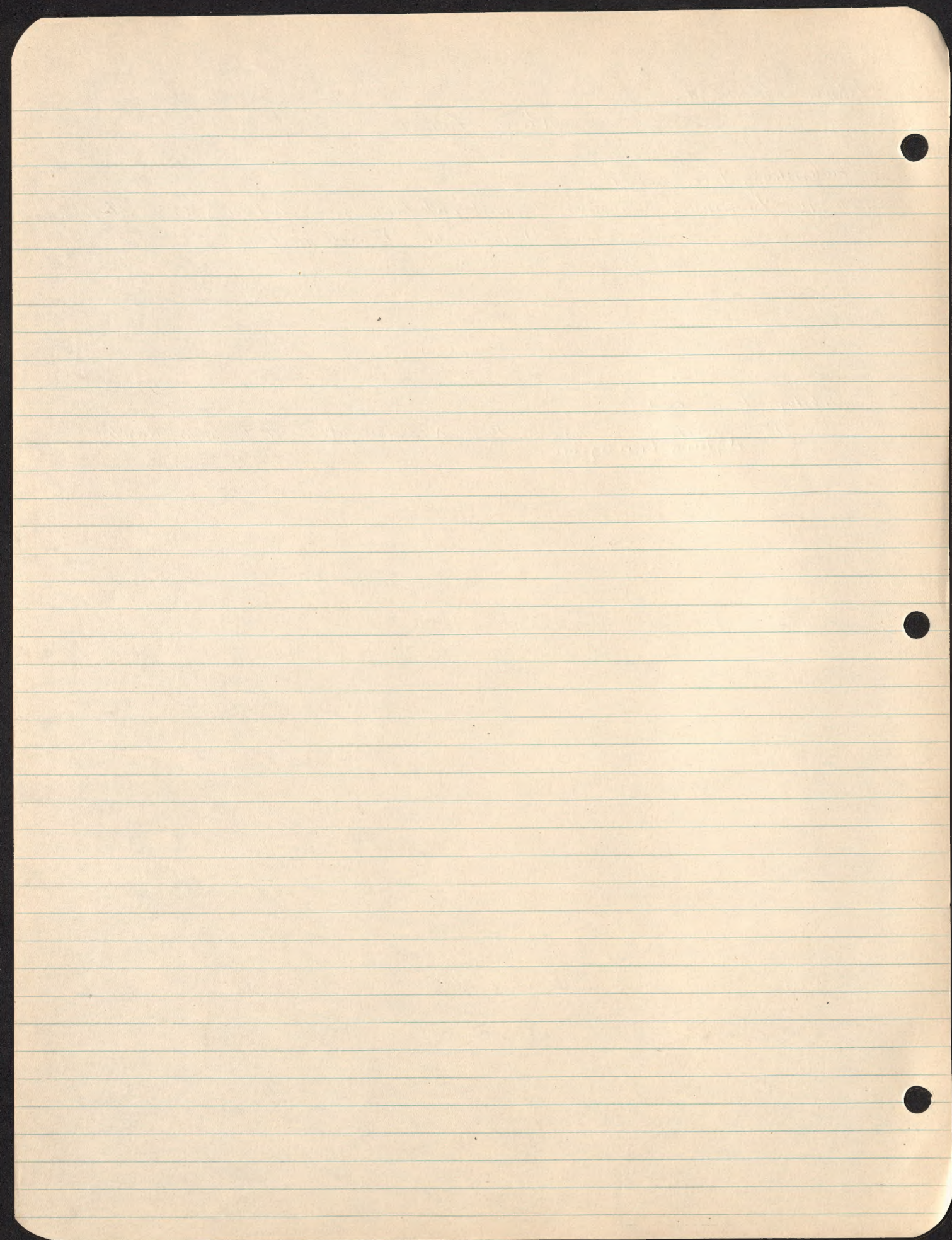
Subsidiary trees, cont.

20318. ~~Act.~~ 450 m. 15 m x 20 cm. Fl. ? Fl. br. pub., unripe.
Mysticaria ferruginea

Notes, cont.

20321.

Postum log in R.I. 400 m.



Upper Paraná Rk.

Rain forest regrowth

Trees

20173. *Ficus* C. polewood tree 6-8 m. Tuberculate gr. neoplactes.

20295. *Myrsine* *parvum*! O. in old secondary RF. to 25 m x 30-35 m. Fl. yellow

20299. *Rub.* O. 6-8 m. fl. ? fl. unripe

20305. *Alphitonia* F. 370 m. to 20 m x 35 m. Fl. greenish.

20. *Melia* O. 16-18 m x 25-30 m. Fl. lavender - fl. ?

Climbers

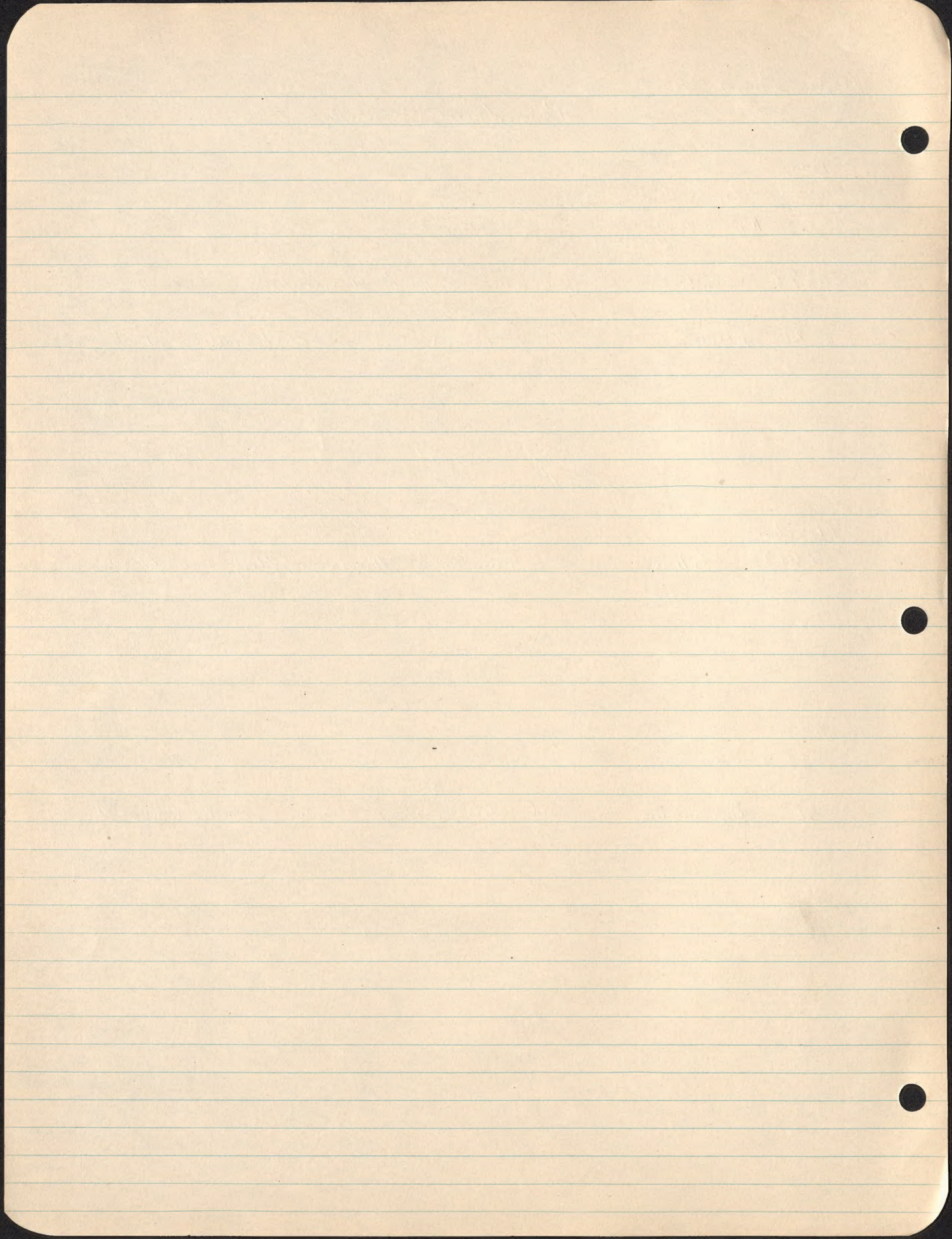
20082. *Lilium*. 3 m. fl. ? fl. orange, flesh; seeds black.

Shrubs

20258. *Ervum* 500 m. alt. 1.5 m. fl. wh.

Sh ? " " tree or shrub 2-5 m. fl. yellow.

96. *Euphorbia* C. tree or shrub 2-5 m. fl. dirty white. fl. ?



Upper Parrot Ok.

Savanna forest 300 m.

Trees

20186. *Diplazium* F. in gullies. 8-10 m x 40 cm. Thwy yellow in flr.

~~20257. *Casearia* "Forest oak" 300 m.~~

20262. *Casearia* forming an understory in flr. 7-16 m x 30 cm. Thin bark.

95. *Pinus falcata* 5 m. Fls. yellow, in great abundance. Fl? ?

Shrubs

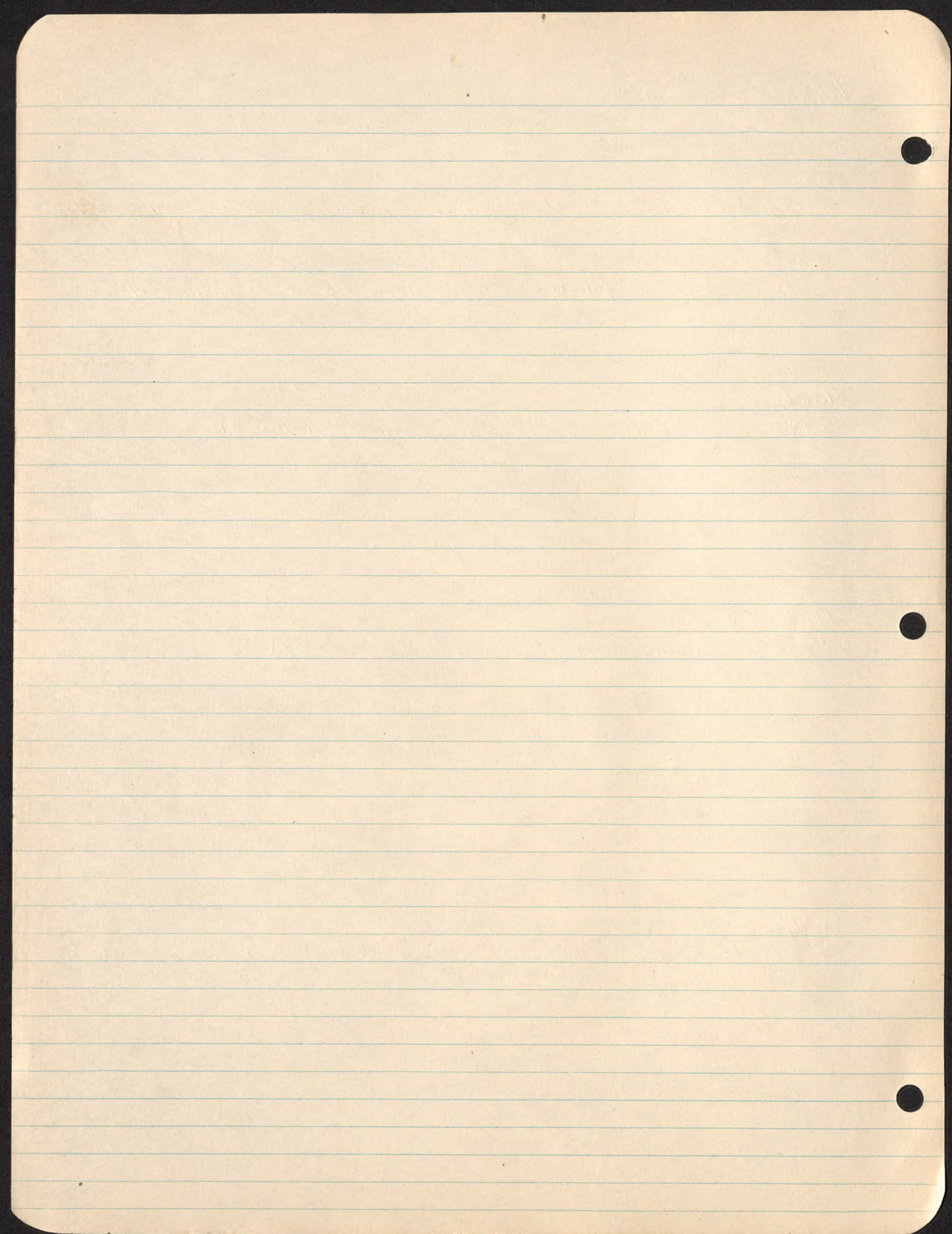
20185. *Melastoma* C. 1-1.5 m. Fls. purple-pink. Fl.

Herbs & grasses

20294. *Themeda*. "Kangaroo grass". J. grass. 1 m.

Epiphytes

20289. *Dendrobium*. "Pencil orchid". P. chiefly on *Casearia* trees. Thy frag. wh. fls. just opening.

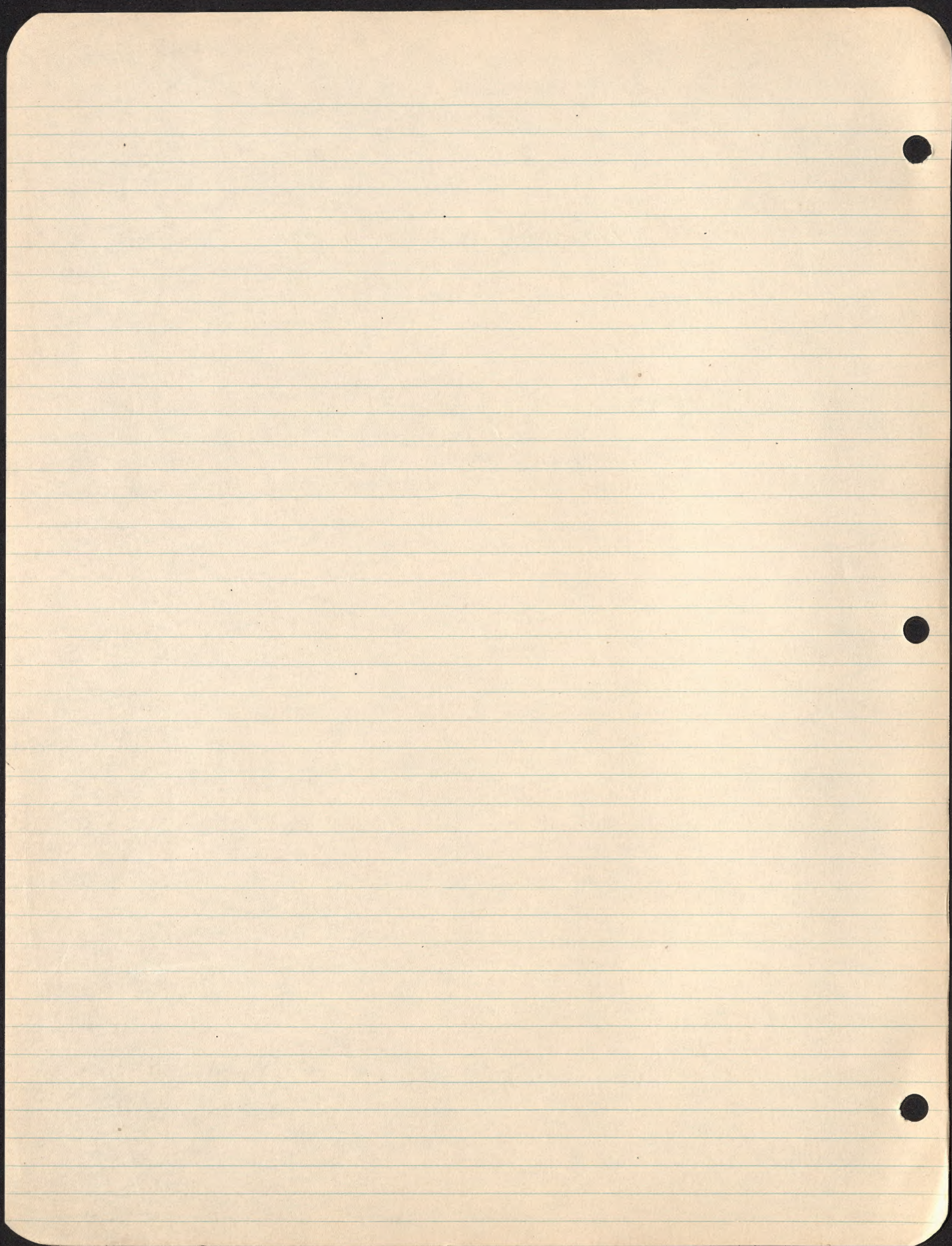


Chi: Finneyan, west slopes

Savanna forest

Rain forest. 800 m -

Rain forest marginal communities



Mt. Finneyan, west slopes.

Savanna forest

Trees

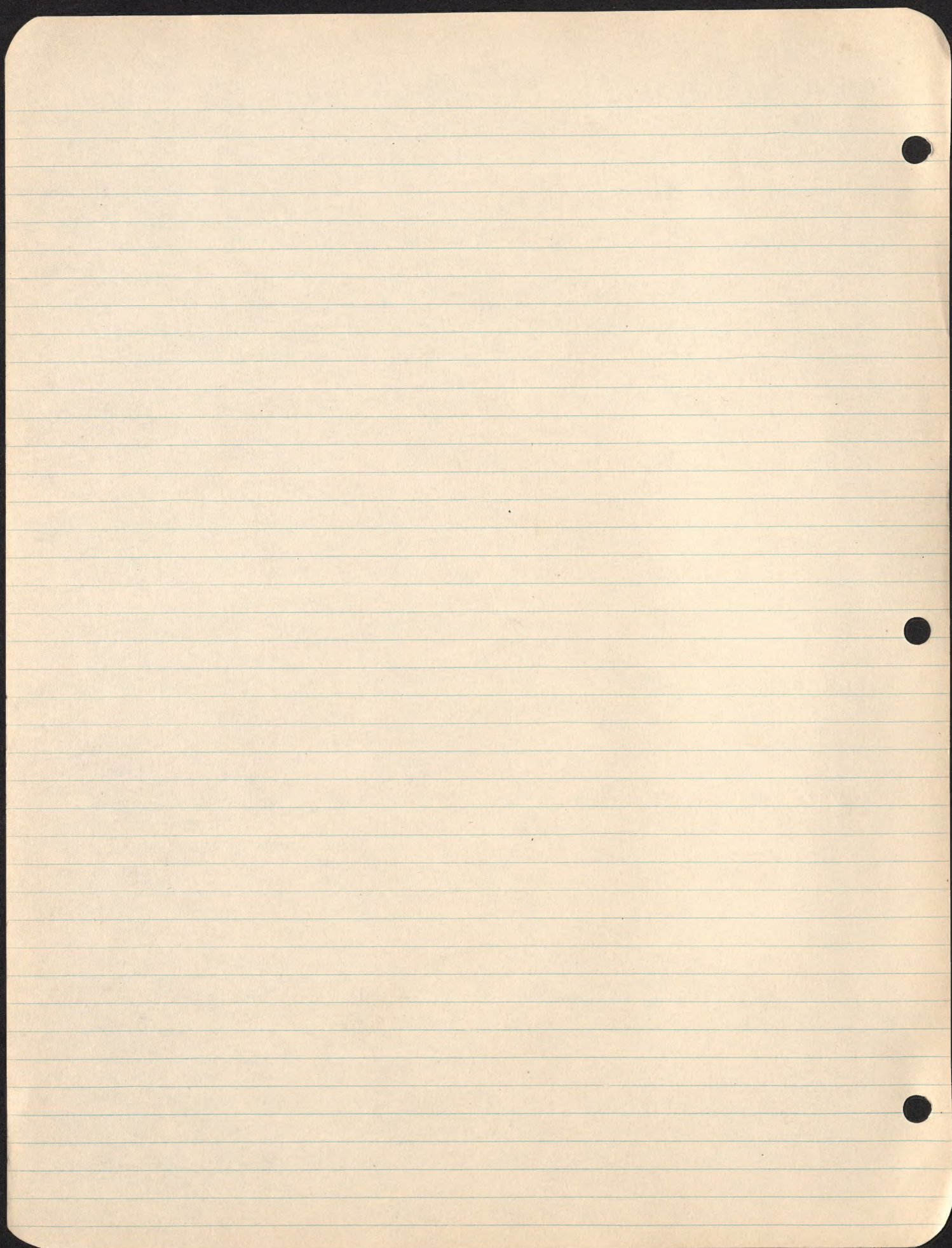
Shrubs

Shrubs & grasses

19984. Coli. O. on open ridge 600m. 30-60cm. Fls. lavender; showy.
95. Camp. O. " " " 60-80cm. Rayless yellow fls. (Hebeicosperm?)
96. Arb. (Coleus?) P. on granite rock faces. 600m. Fleshy, 40-60cm. Fls. violet.
20955. Camp. F. 750m. Fls. wh. changing to lavender in drying.

Epiphytes

19997. Dendrobium ^{Shrub} A. on Casuarina tree, 40-50cm. Fls. wh. to creamy-yellow.
delicately scabrous (also top of Mt. Finneyan). 700-800m.
99. Coli. Trunk of a Casuarina 800m. 5cm. Thick long gr-wh. fls.



Mr. Finnegan, west slopes.

Savanna forest

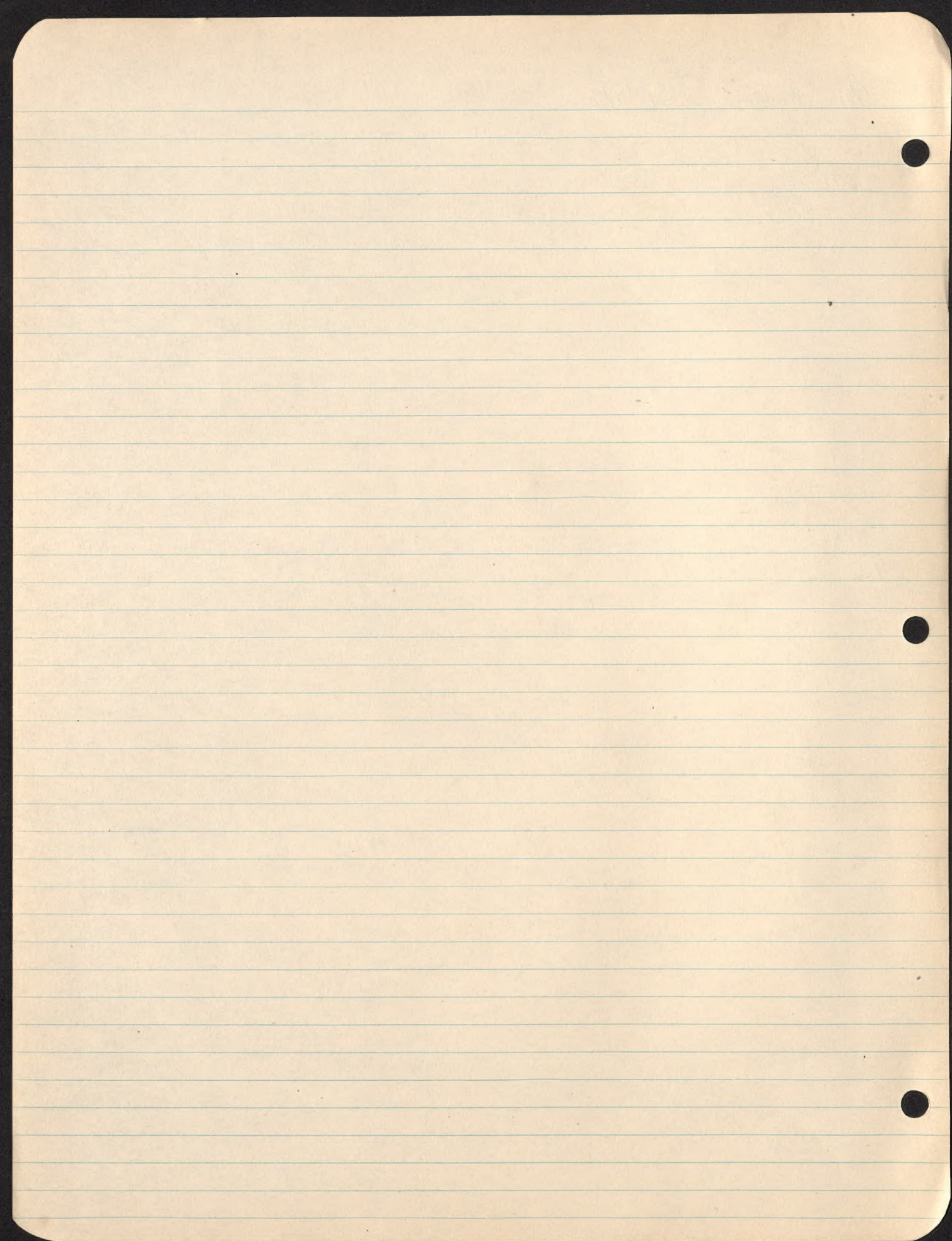
Notes

20007.

On rocks

20360.

On rocky bank of Zambezi river 800 m.



Mt. Finnegun, west slopes.

Rain forest

Canopy trees

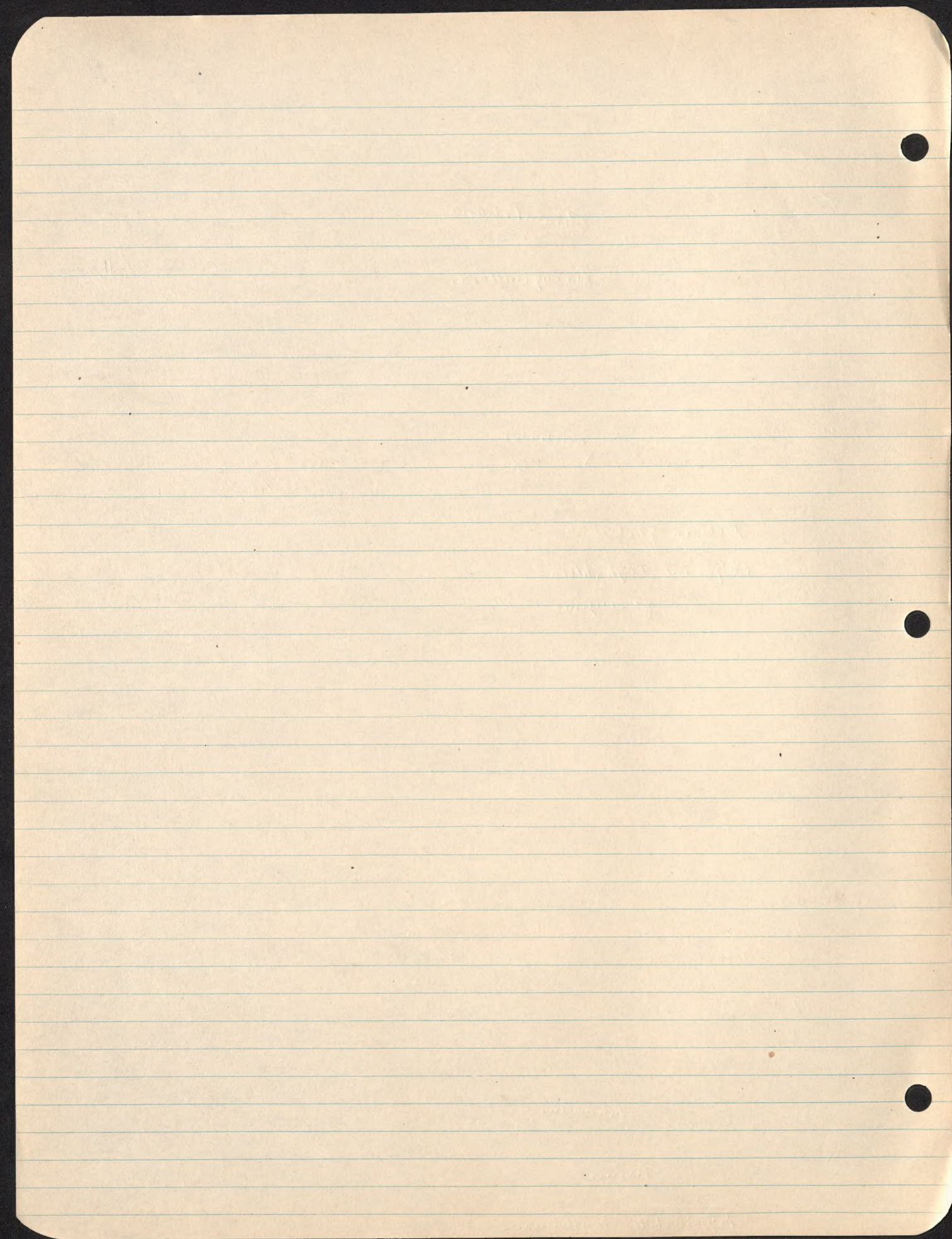
20322. *Flindleria* ^{*Permentoliana*} 800 m. 20 m x 55 cm. Fl. ? P. unisexual, 5-8 cm. lg.
45. *Elaeocarpus* ^{*ferrugineiflorus*} 850 m. 15 m x 40 cm. Fl. ? (High in the tree)

Other trees

20504. *Irvingia* ^{*australis*} *baileyi* ? (Dec.). O. 15 x 25 cm. Fl. wh. Red bearing part of fl. green; fleshy part wh., soft & fleshy.
52. *Ficus* ^{*Thoungling*} Th. 12 m. Large paired cream fl.
20147. *Figia* ^{*glaberrima*} ~~glaberrima~~ ^{*glaberrima*} Opposed open ridge 850 m. 6 m. Fl. yellow. Fl. cream above.
20349. *Polydora* *rhytophloia* in substage 850 m. Tree 6-8 m. Fl. yellow. Fl. green.
50. *Heliconia* ^{*ferruginea*} ~~*ferruginea*~~ ^{*ferruginea*} ~~*ferruginea*~~ " " 7 m. Fl. pr-yellow. Fl. ?

Woody undergrowth

20003. ? Shrub 2-3 m. Fl. wh. Fl. ?
40. *Pittosporum* C. more open forest 850 m. Shrub 1.5-2.5 m. Fl. cream.
41. *Aral.* S. in v.g. shrub 1.5-2 m. Fl. ? Fl. unisexual. Panicle purple.
42. *Rub.* S. " 850 m. Shrub 1.5 m. Fl. ? Fl. red, fleshy.
43. ? ^{850 m} *W. char. element* Tree or shrub 3-5 m. Fl. white. Fl. lowest & bracts
44. ? 850 m. Tree 5 m. Fl. wh. Fl. ?
45. *Alyxia* F. in open part 850 m. Shrub 2 m. Fl. cream. (also border of 2500)
50. ? C. in opposed open 900 m. Tree or shrub 2-3 m. = 20043.
20148. *Linosyris* ^{*incommoda*} ~~*incommoda*~~ ^{*incommoda*} One example 850 m. 1.5 m. Fl. buds only.
49. " C. opposed open ridge 850 m. 1.5-2 m. Fl. yellow. Fl. ?
50. " ^{*minor*} " " " 1-1.5 m. Fl. yellow. Fl. ?
20323. *Samanea* ? 850 m. Tree 4 m. Fl. buds only. Fl. green.
Hypophita *halleyana*



Mr. Finnegan, west slopes

Rain forest

Herbaceous undergrowth

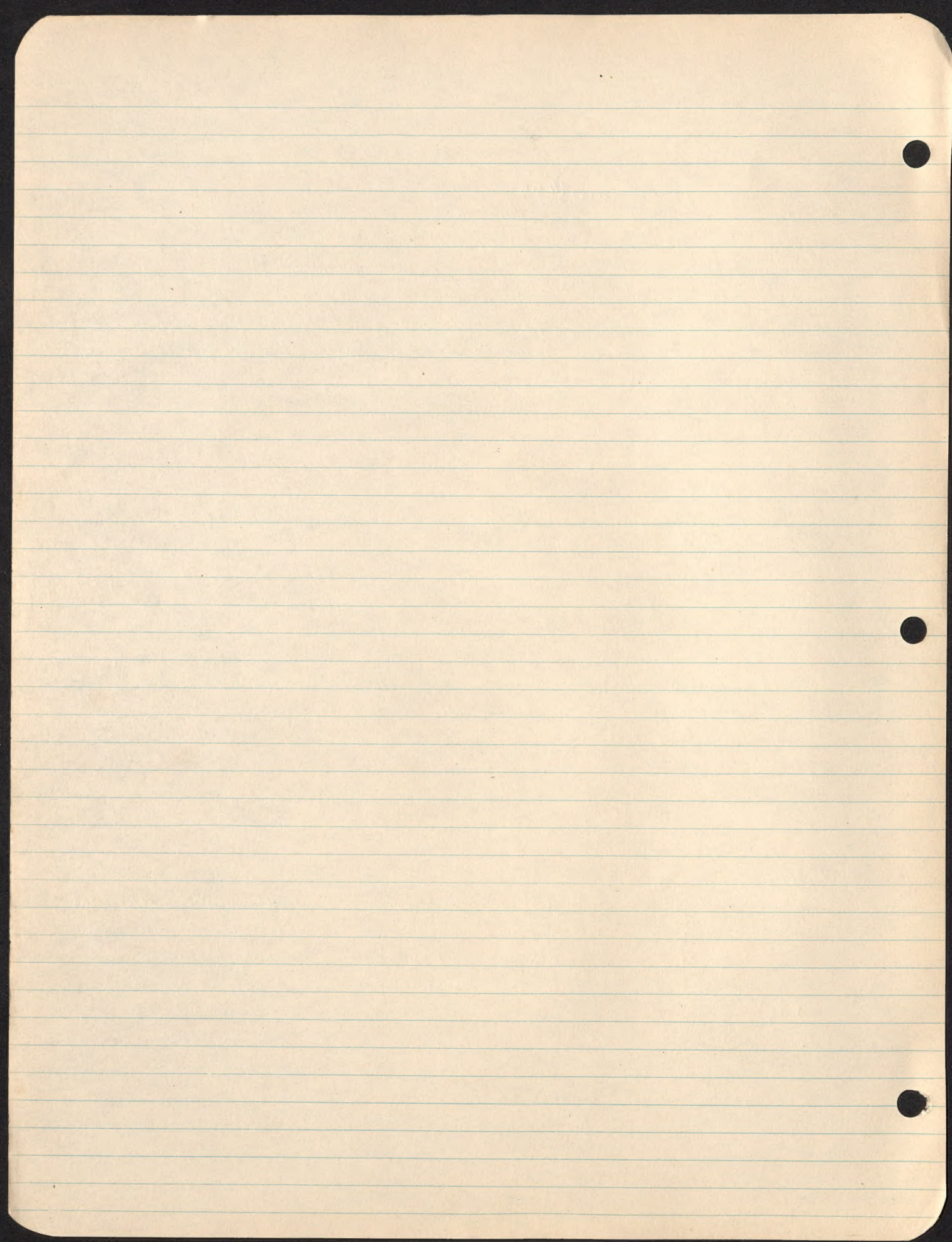
20046. *Helmholtzia* ^{acutifolia} A. in a moist rocky ravine 850m. 70-80cm. Fl. ? Pink, soft ^{fast.}
47. *Marattia* ? A. rocky edges of a waterfall. 60-150m.
48. *Trichomanes* A. wet rocky banks of a stream 850m.
51. *Lindsaea* Under granite rocks 850m
20324 *Blechnum* Eup. on wet banks of a stream 700m. Tree fern habit; 1.2m.
52. Fern C. locally 820m. Numerous arching spreading leaves, 1.1m.

Climbers

20039. *Tecomanthe* O. in low open forest of a open ridge 850m. 6-8m.
~~20145. *Hygajalis* +~~ Large red fls. 8m long.
20145. *Hygajalis* *Rheiniana* F. large liana 5-16-18m. (850m). Fls. red, lobes white ^{within}
46. *Ipoe.* Scandent shrub 8m Fl. ? D: gr-yellow.

Epiphytes

19998. *Senecioium* One plant on a rock. 25cm. Fls. cream, wh. & purple-cream.
20000. *Orch.* " low on a tree ^{800m} 4cm. Fls. wh. fls. streaked purple.
06. Fern C. low on trees (8 rocks) 850m. Blushes narrow simple leaves 50cm.
49. " C. low on tree trunks. Pinnae bifid, shaggy creeping. Seldom fr. 68.
53. " Rare " " 850m. Fls. leaves.
20344. *Polypodium* 850m. Canopy. 8m. Fls. yell.-wh. streaked & spotted purple.
46. Fern. Upper branches 850m. Fls. simple leaves 20cm.
47. *Euphroglossum* Low epiphyte 850m. 70cm.
51. Fern. Creeping low epiphyte 850m.



Mt. Finneyan, west slopes

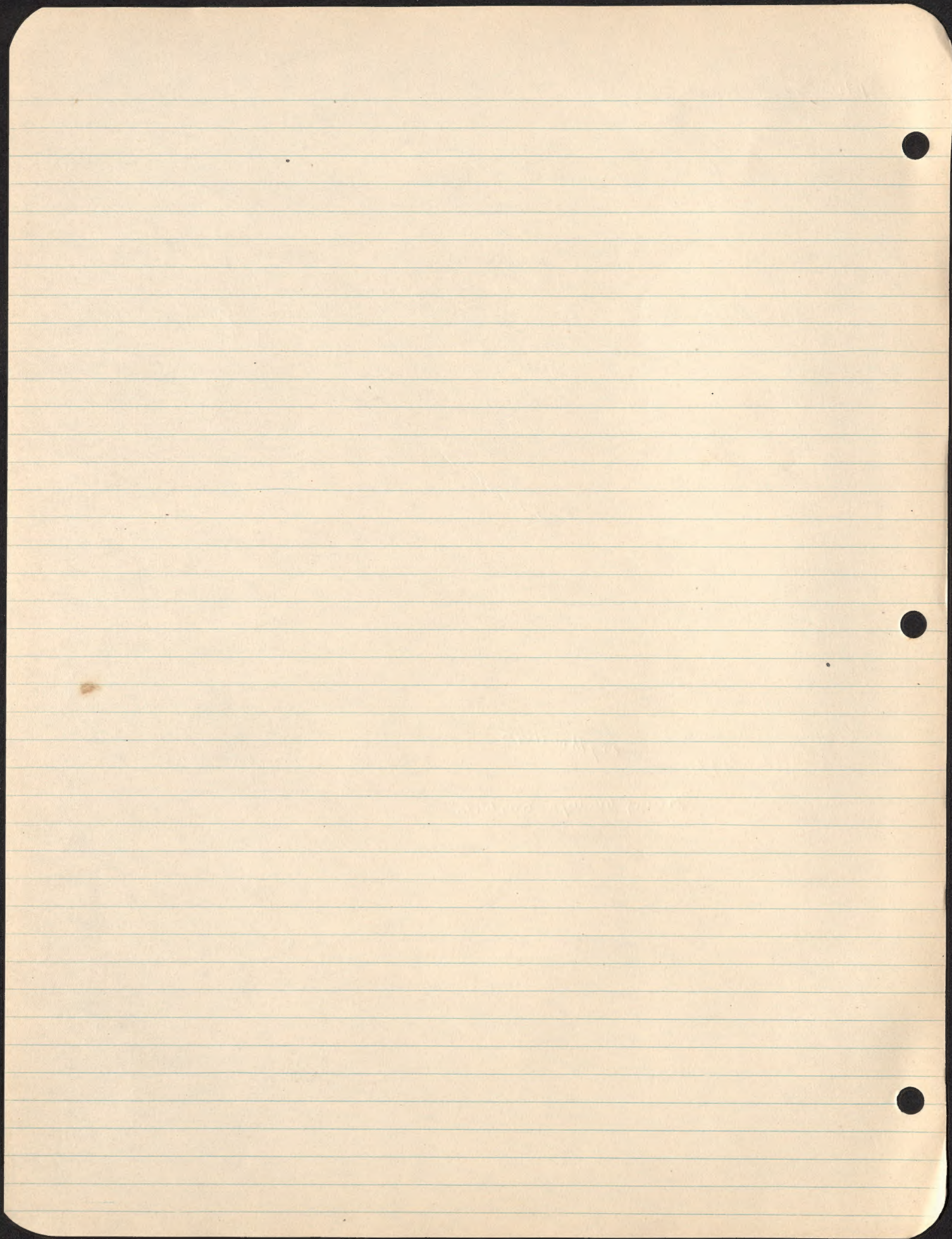
Rain forest

Mosses & hepatics

- | | | |
|-------------|--|-------|
| 20055. Moss | Rolling log in R.F. | 850m. |
| 56. " | Barreling a rotten log. | " |
| 57. " | Branches of u.s. tree | " |
| 58. Hep. | Fuzzy green sh. At an branches of u.s. | 850m. |
| 20151. Moss | Stem of a rolling log. | 850m. |
| 52. " | " " " | " |
| 53. " | Living bark of a tree | 800m. |
| 54. " | Rolling bark. | |

Woody undergrowth com. *Prodraca*

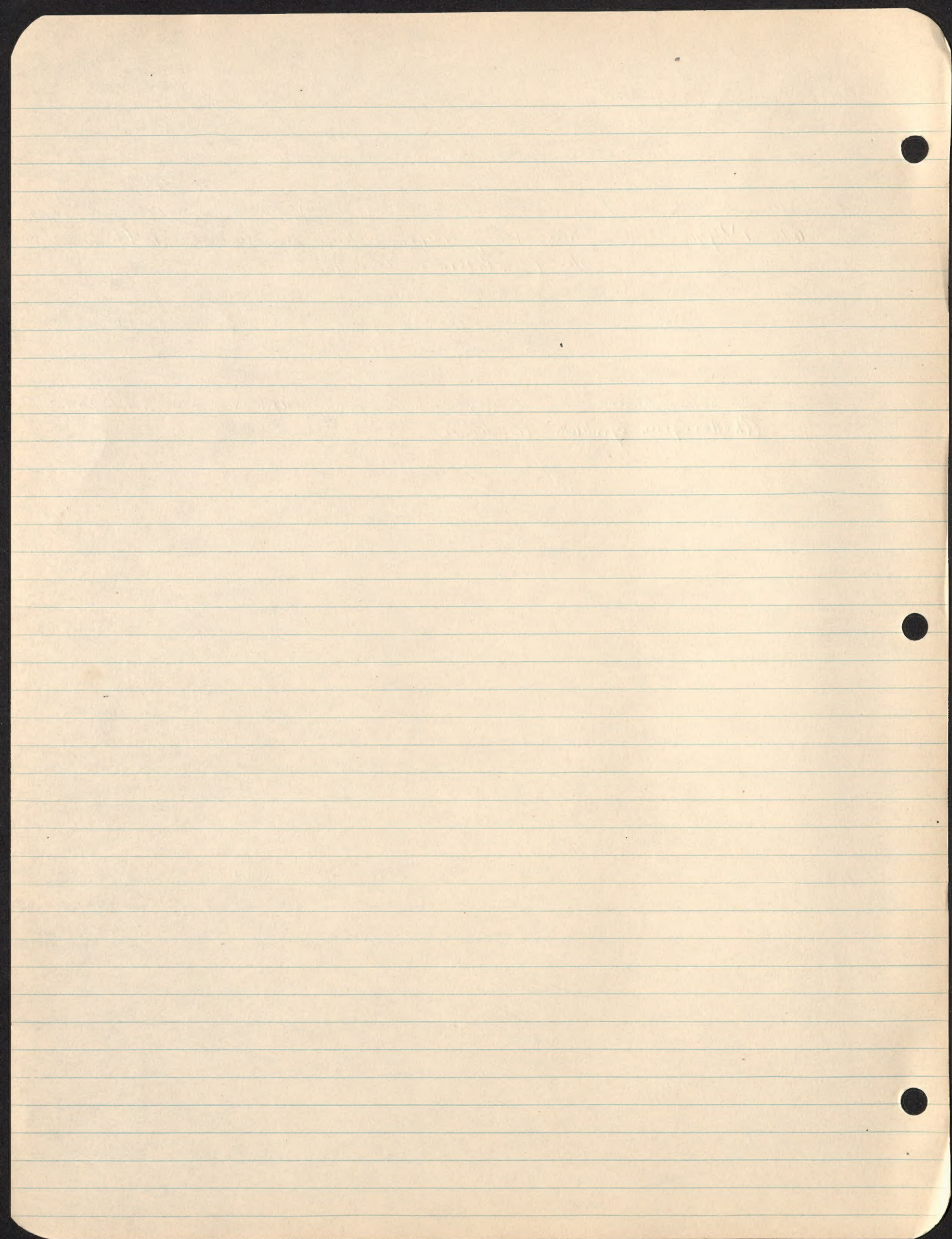
- | | | |
|------------------------|--------------------------|-------------------|
| 20343. <i>Fragaria</i> | 850m. Tree 3m. Fl. ? | Fl. yellow & red. |
| 48. ? | " Tree 3m. Fl. wh. Fl. ? | |
- Living bark of a tree*



Mr. Finnegan, west slopes.

Rain forest marginal communities

20001. ? F. tree or shrub 2-4 m. (760 m). Fl. wh. Upright branching habit.
02. *Myrica* Eng. rocky edges. Shrub 2 m. Fl. cream. Fr. (broad based sp. of *Pellaea* 1 km.).
20353. *Scandol* Forming low ^{± 1 m high} tangles on grassy edges. Climbing shrub ~~to 1 m~~. Fl. yellow. 800 m.
24. *Dioscorea*? One example on grassy edge 800 m Shrub 1.5 m.
Phodanopsis gymnocarpa Fl. pink.



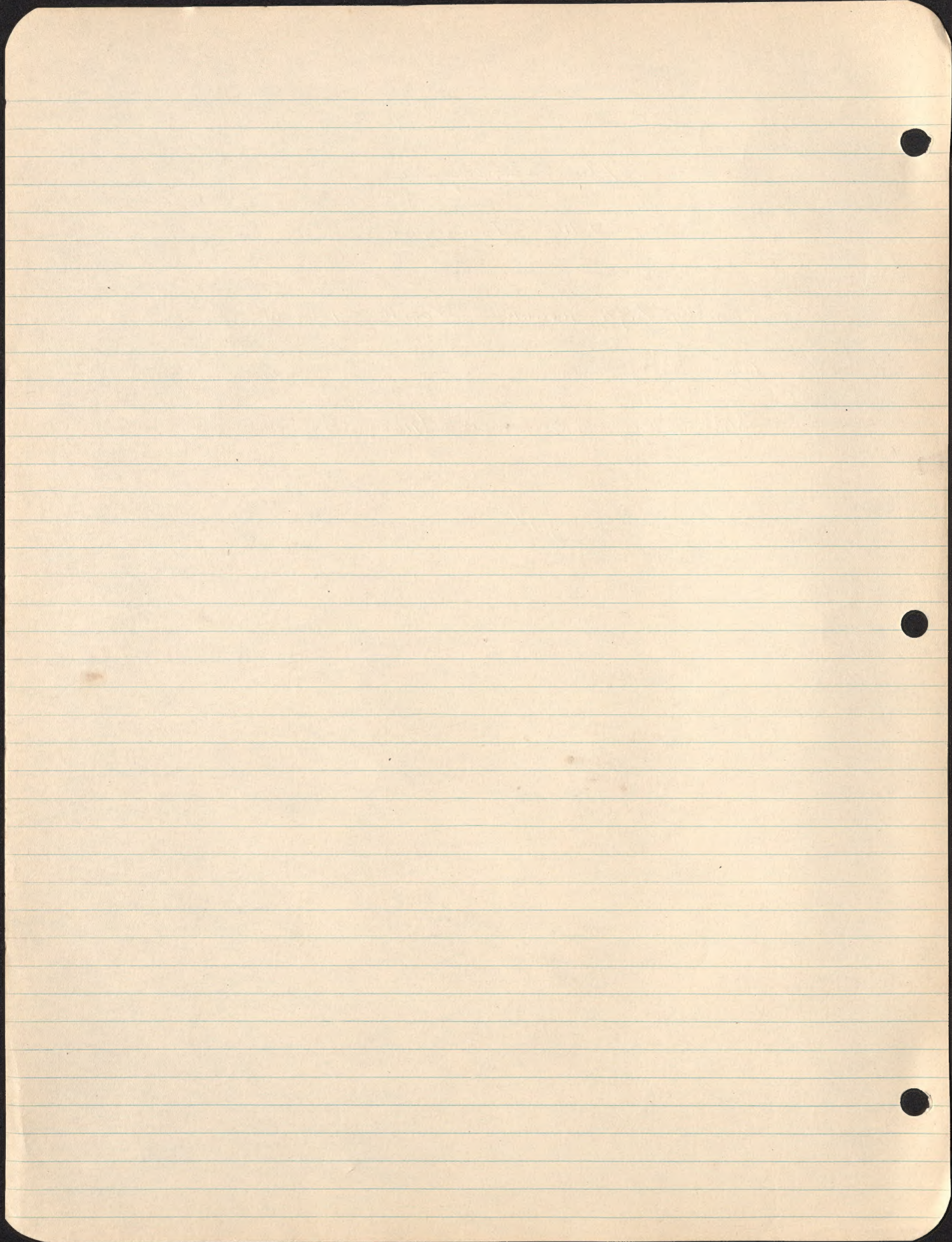
~~Mi. Finneyan~~

Mi. Finneyan

Scrubby high mountain forest 1000 m -

Open rocky area at 1000 m.

Shrubs on summit (1140 m.)



1911. Trinigan

Scrubby high mountain forest

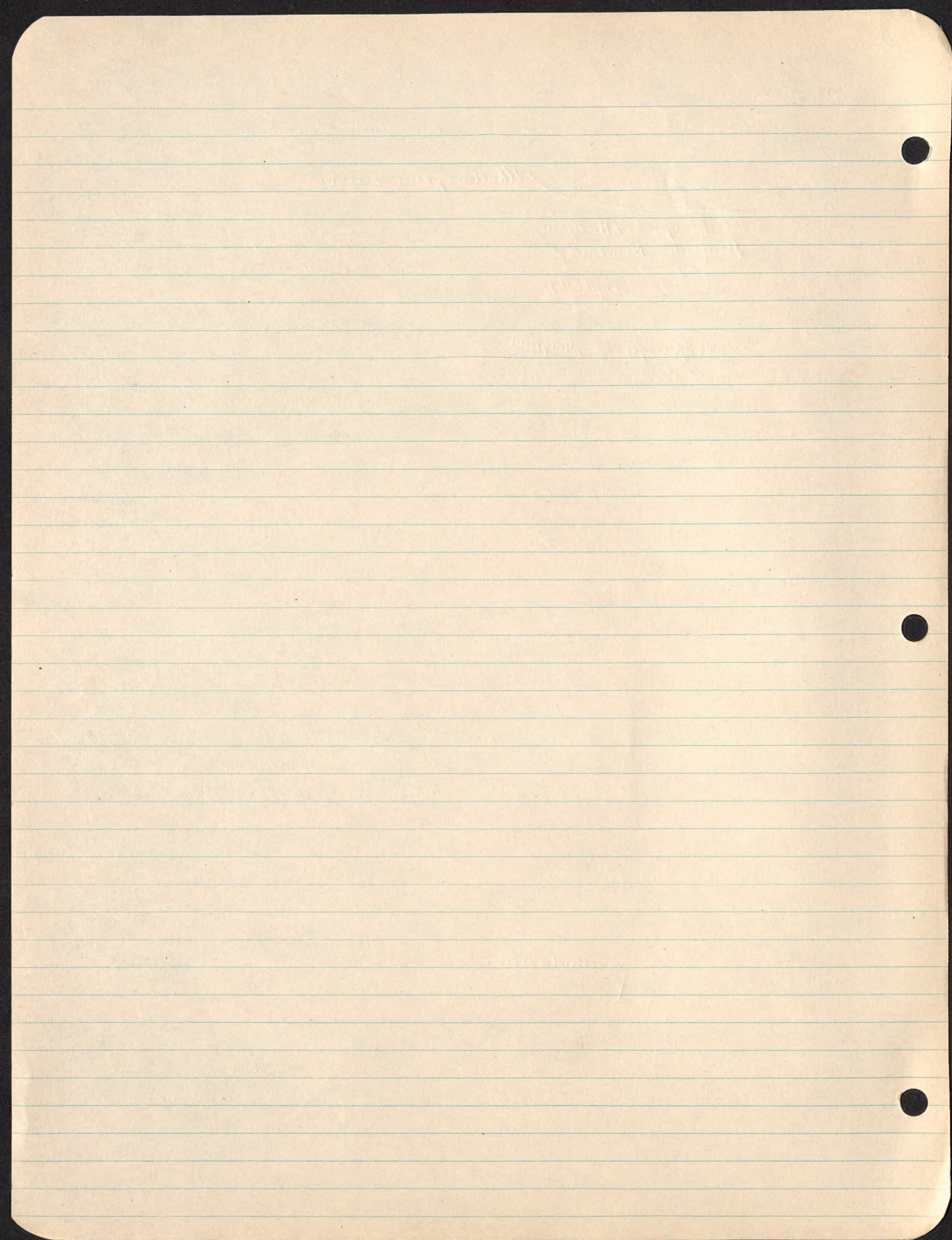
Trees & other dominants / *Rhodomyrtus* *sericea*

20061. *Rhodomyrtus* P. tree or shrub. Fl. buds only. Leaves br. pub. below. ^{red} Old leaves
62. *Sarcophyllum* cf. *Maryana* F. tree 4-6 m. Fl. buds only
63. *Platfordia* *Kindack* tree 6 m. Fl. ? Fl. red, axillary. Leaves fleshy.
65. *Lycopodium* *mythrodora* tree 5 m. Fl. ? Fl. yellow, tinged red.
20105. *Wrightia* V.A. 1000 m. tree or shrub 1-3 m. Bayonet-like leaves.
14. *Sarcophyllum* cf. *Maryana* F. 1000. tree 4-6 m. Fl. buds only.
20328. *Balanites* 1060 m. tree 5-6 m. Fl. ? Fl. orange-yellow.
31. *Brinsleya* A. 1060 m. tree or shrub 2-5 m. Fl. ? (also a shrub in u.s.)

20338. *Trinigan* A. in ± open rocky places 1060 m. Shrub 1.5-2 m. Fl. white
Fl. yellowish. Lower branches thick & fleshy.
37. *Phorad.* A. in a shrubby rocky opening 1060 m. Fl. buds only. Fl. yellow
40. *Phoradendron* *hookeri* A. in shrubbery of a rocky opening. 910 m. Shrub 40-60 cm.
Fl. red. Only 1 plant found in flower on mountain.

australasicus

20068. *Belytrocalyx* ? V.A. in a moist gully 1040 m. 4-6 m. Fl. ? Fl. red. Leaves few, 80-110 m.
20064. *Gyathia* P. in a moist gully 1040 m. 2.5-3 m. Few flat spreading leaves 60-80 m.
Lower stem much enlarged by a mass of achenes & often tomentose, compressed.
66. " A. in moist gully 1040 m. Leaves flat spreading 80-100 m. 3-4 m. tall.
69. " O. " 2-2.5 m. Many arched & spreading leaves ± 2.5 m. long.



Mr. Finnegan

Scrubby high mountain forest

Epiphytes & Parasites

20060. *Korshatella*. Parasitic on a shrub. 5-6 cm. Plant br-green.
70. *Elaphoglossum* F. on mossy lower trunk & on rocks 1040 m. Fertile leaves whitish.
71. Fern. Tufted " " 1040 m. Smooth simple leaves 30-50 cm.
73. " C. low on moss 1050 m. Pinnatifid. Mossy sterile.
74. *Vittaria*? Branches of tree 1100 m. 2-3.5 cm.
75. Polypod. Mossy trunk & rocks 1100 m. Simple leaflets sp. 0.5 cm.
76. *Hymenoph.* " " " " 8-10 cm.
77. Fern. Pinnatifid 3 cm. (1100 m.).
78. Polypod. Trees & rocks 1100 m. Tufts simple bifid leaves 4-10 cm.
79. *Hymenoph.* A. on mossy tree 1100 m. Leaves curved, very pale green.
80. " Mossy rocks 1100. Bark gr. wrinkled leaves 6-7 cm.
88. *Trisetaria*? Stem of a tree-form (*Dicksonia*) 1040 m. 10 cm.
20103. *Psilobophyllum* A. on dead branches 1000 m. ^{1-2 cm} fl. wh. yellow, streaked purp-br.
11. Orch. One plant 1000 m. 2.5 cm. Fl. cream.
15. *Vittaria*? 1000 m. Sliff recurved leaves 1-3 cm.
20327. Polypod. C. 1060 m. Sliff dimorphic simple leaves at 25 cm.
39. Orch. V.A. 1060 m. 10-15 cm. Cream, very fragrant fls.
41. *Stemata* A. on rocks & trees 910 m.
42. *Psilobophyllum*. C. small creeping fl. 910 m. Fls. greenish, stripes purple.

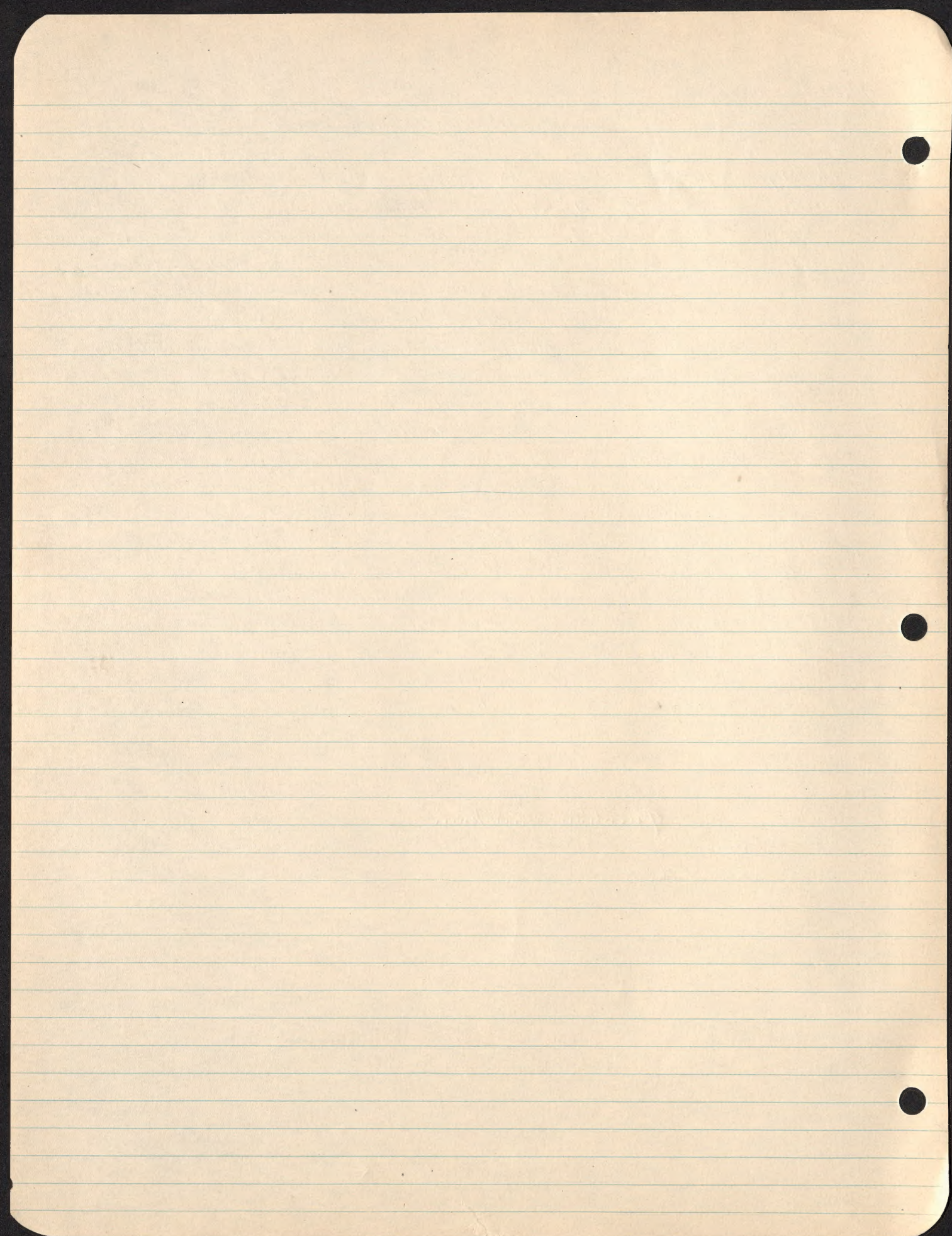
Climbers

Passiflora farawensis

20067. *Passiflora*? F. scandent shrub 5 m. (1040 m) Fls. wh. Fr. ? Fleshy smooth leaves.
20101. *Tecomanthe* O. 4-5 m. Fls. red, L 7 cm. long.

Undergrowth

20329. Rub. 1060 m. Fls. wh. Fr. ? Shrub 2 m.
30. " A. 1060 m. Shrub 1-2 m. Fls. ?

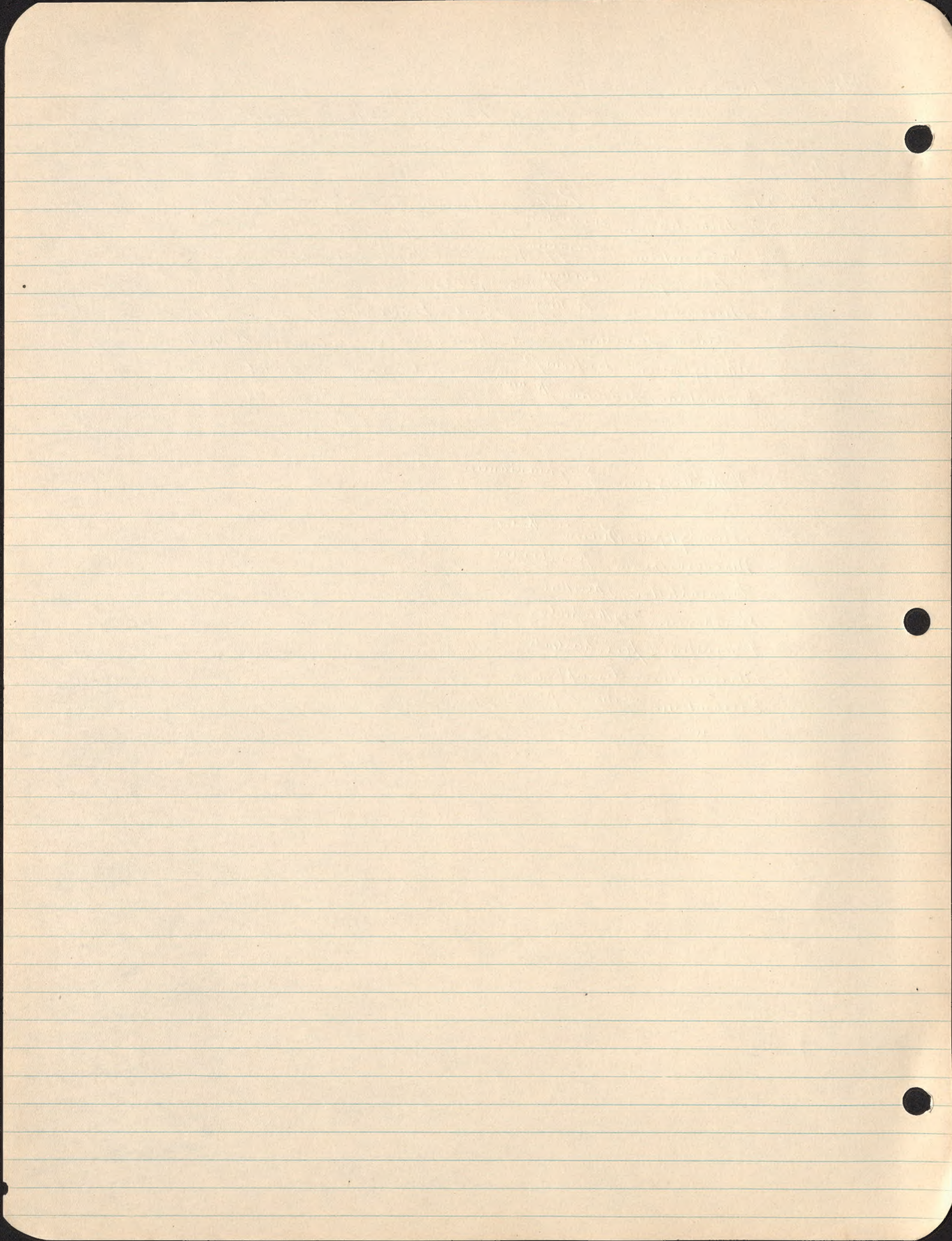


Mr. Finney

Scrubby high mountain forest

Notes

20081. Rocks on bank of a stream 1040 m.
82. *Trichosteleum hamatum* covering trunks of trees "
83. *Gicranoloma sinuatum* H. trunks of trees & rocks "
84. *Leucobryum sandwicense* on a rock "
85. *Macromitrium scottii* H. dead branchlets of trees 1100 m.
86. *Leucob. sandwicense* Mt. bank of a stream 1040 m.
87. *Rhizogonium spiniforme* P. on granite rocks in scrub 1100 m.
90. *Gicranoloma spiniforme* H. ^{nov.} on u.s. Delicate fuzzy th.
91. Living branchlets of u.s. 1100 m.
92. Living branches of trees "
93. *Hypopterygium* ^{Laymanianum} C. trunks of trees "
96. Polling wood.
20106. *Campylipsus Prunii* ^{Thunbergii} Open ground in scrub. 1000 m.
7. *Macromitrium fimbriatum* H. on dead branches "
8. *Eucampylodon Muelleri* A. living & dead branchlets 1000 m.
20332. *Acroperium* ^{erythrocephalum} tree tops. 1060 m. Yellow stems colored cushions.
33. *Polomitrium prichardii* Small dark olive green cushions in tree tops 1060 m.
34. *Macromitrium dimorphum* Bearing dead branches of trees 1060 m. Reddish brown.
35. *Gicranoloma* ^{austro-ropaeum} Tops of trees 1060 m. Pale yell-gr. small loose cushions.
36. " " stems of trees 1060 m. Pale green
37. Branches of low trees 910 m.
57. tree trunks "
58. On dead branchlets "



Mt. Finneyan.

Open rocky area at 1000 m

20102. *Dendrobium furiforme* V.A. on exposed granite. 40-50 cm. Fls.
cream, fragrant.

04. *Borja rufimaculata* V.M. Principal plant on open rocky area. 15-25 cm.
Plant raised on stiff roots & often forming loose cushions.
Few plants in flower.

09. *Malangas*. Herb 20-40 cm. Fls. white.

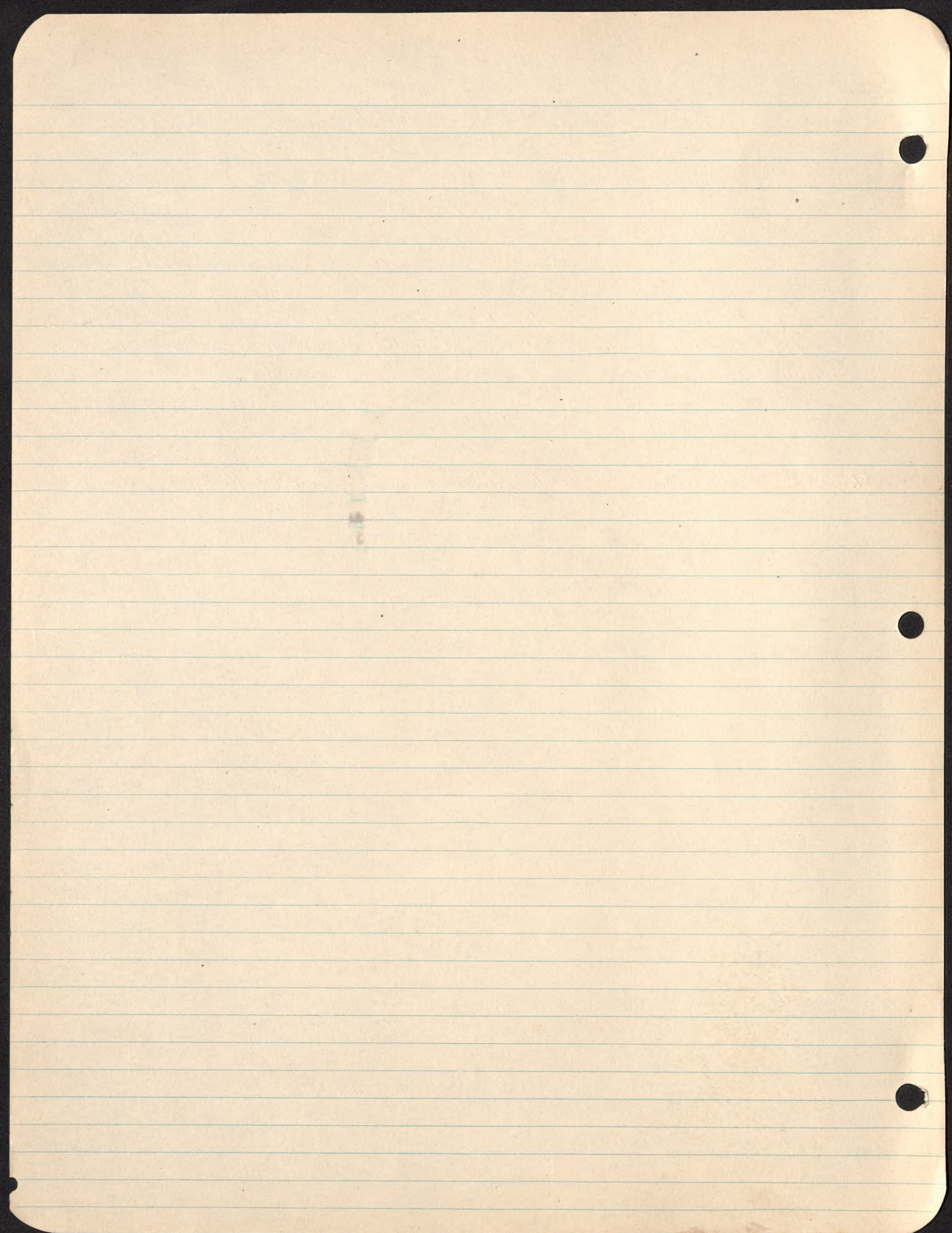
10. *Orch.* Amongst rocks on open rocky ground. Fls. pink, column
green.

12. *Heliconia* ? F. herb 50 cm. Yellow rayless fls. Leaves grey below.

13. *Zieria* F. open rocky situations. Shrub 30-40 cm. Fls. wh.

16. ? C. amongst rocks on open ground. Herb 3-10 cm. Fls. wh.

20325. *Epacris*. C. shrub ± 1 m. Bearded wh. fls. (first opening).

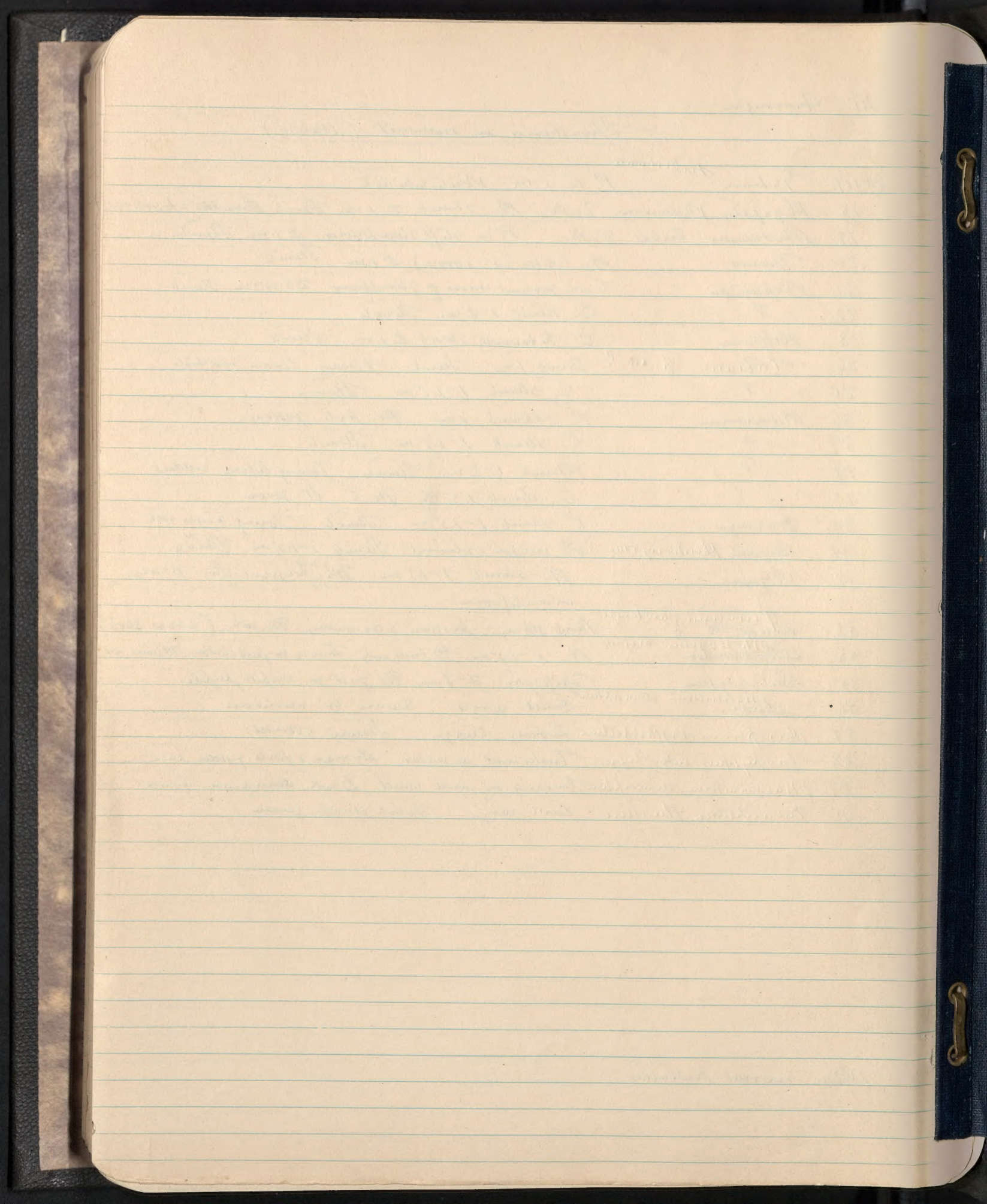


1 Mi. Finneyan

Shrubbery on summit (1140 m)

20117. *Sabnia* ^{*nigricans*} P. 5, m. Wb. whitish.
18. *Agaveles* *rhiniana* F.v.M. A. shrub \pm 1 m. Sterile. Branches & petioles red.
19. *Phacodendron* *tochar* F.v.M. F. in stiff shrubbery. \pm 1 m. Sterile.
20. *Eponia*. A. (also at 1000 m). \pm 1 m. Sterile
21. *Neophyllopsis* C. in ground mass of shrubbery 20-40 m. Sterile.
22. ? O. shrub 1-2 m. Sterile
23. *Hibbertia*. O. tufted shrub \pm 1 m. Sterile
24. *Taphrosia* ? sp. ? shrub 1 m. Sterile. Young leaves reddish.
25. ? C. shrub 1-1.5 m. Sterile
26. *Ptilosporum* F. shrub 1 m. Fl. pale yellow.
27. ? C. shrub 1-1.5 m. Sterile
28. ? shrub 1-2 m. Sterile. Young leaves reddish
29. ? O. shrub 1.5 m. Fl. ? Fl. green
30. *Grimesia* F. shrub 1-1.5 m. Sterile. Young leaves red.
31. *Myrtus* *rhynchophylla* ? V. major climber. Shrub 1-1.5 m. Sterile
32. *Myrica* A. shrub 1-1.5 m. Wb. frequent fl. Fl. orange,
maniliiform.
33. *Quercus* ^{*laetifolia*} ~~*laetifolia*~~ shrub 50 cm., prostrate & ascending. Fl. wh. (also at 3400)
34. *Phacodendron* ^{*rhiniana*} ~~*rhiniana*~~ A. 1-1.5 m. Fl. buds only. Leaves br. pub. below. Old leaves red.
35. *Pultophyllum* Epiphytic 2-3 m. Fl. poll-yr. striped purple.
36. *Macromitrium* ^{*dimorphum*} ~~*dimorphum*~~ Dead wood. Dense br. cushions
37. *Desmodium* ^{*erythrophellum*} ~~*erythrophellum*~~ Living, woody. Thaw colored.
38. *Tampylopus* *intreflexus* Tussocks on rocks. Bronze & pale, golden hues.
39. *Macromitrium* *dimorphum* Creeping on dead wood. Dark cinnamon brown.
40. *Eucalyptus* *musellii* Dead woody. Fresh dark green.

Also several *hepaticas*



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